

## Asst. Prof. FATMA SARF

### Personal Information

**Office Phone:** [+90 286 416 7705](tel:+902864167705) Extension: 127

**Email:** fatmaozutok@comu.edu.tr

**Web:** <https://avesis.comu.edu.tr/fatmaozutok>

**Address:** 17020

### Education Information

Doctorate, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2009 - 2016

Post Graduate, Selcuk University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2007 - 2009

Under Graduate, Selcuk University, Eğitim Fakültesi, Fizik Öğretmenliği, Turkey 2000 - 2005

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Biyofotonik ve Biyomems Çalıştayı, İstanbul Şehir Üniversitesi, 2014

Education Management and Planning, GRM-2014, İYTE, 2014

Education Management and Planning, Fizik Odaklı Araştırma Projesi Hazırlama Eğitimi, TÜBİTAK-Süleyman Demirel Üniversitesi, 2014

Education Management and Planning, Workshop on ESR Spectroscopy, ILTEK, Selçuk University, 2013

Education Management and Planning, Workshop on Applied Dosimetry and OSL/ESR Dating, Ankara University, Institute of Nuclear Sciences, 2013

Education Management and Planning, Conference on Raman and Luminescence Spectroscopy in the Earth Sciences (SHORT COURSE), University of Wien, Institute of Mineralogy and Crystallography, 2013

Education Management and Planning, JANA 2006 WORKSHOP, Dokuz Eylül University Science Faculty Physics Department Tınaztepe Buca/İZMİR, 2012

Education Management and Planning, Physics of Fundamental Effects in Condensed Matter Physics : Theory & Experiment, Institute of Theoretical and Applied Physics (ITAP), 2010

### Dissertations

Doctorate, Sensör Uygulamaları İçin Metal Oksit İnce Filmlere Metal ve/veya Karbon Nanotüp Modifikasyonu ile Nanokompozitlerin Eldesi, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, 2016

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Material Characterization, Nanomaterials, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive

Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Yönetim Ve Organizasyon, Enerji Tesisleri İşletmeciliği, 2020 - Continues

Research Assistant PhD, Canakkale Onsekiz Mart University, Fen-Edb. Fak., Fizik, 2016 - 2020

Research Assistant, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Fizik, 2009 - 2016

## Professional Experience

Head of Department, Canakkale Onsekiz Mart University, Çan Myo, Yönetim Ve Organizasyon, 2020 - Continues

## Courses

Energy Efficiency, Associate Degree, 2019 - 2020

Biomaterials, Associate Degree, 2019 - 2020

Enerji Information II, Associate Degree, 2019 - 2020

Medical Informatics, Associate Degree, 2019 - 2020

alternative and sustainable energy sources, Associate Degree, 2019 - 2020

Fizik I, Under Graduate, 2018 - 2019

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

- **The role of rare-earth metal (Y, Ru and Cs)-doped ZnO thin films in NH<sub>3</sub> gas sensing performances at room temperature**  
SARF F., Er I. K., YAKAR E., ACAR S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.10084-10095, 2020 (Journal Indexed in SCI)
- **Structural and Electrochemical Properties of Ni Doped and MWCNTs Coated ZnO Thin Films**  
SARF F.  
Bulgarian Chemical Communications, no.3, 2020 (Journal Indexed in SCI Expanded)
- **Enhancing the Co gas sensing properties of ZnO thin films with the decoration of MWCNTs**  
Ozutok F., Er I. K., Acar S., Demiri S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, pp.259-265, 2019 (Journal Indexed in SCI)
- **INFLUENCE OF SULFUR CONCENTRATIONS ON THE OPTICAL PROPERTIES OF ZnS FILMS ONTO ZnO SEED LAYER SYNTHESIZED BY CHEMICAL BATH DEPOSITION**  
ÖZÜTOK F., YAKAR E.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.85, no.3, 2018 (Journal Indexed in SCI Expanded)
- **Influence of Different Aluminum Sources on the NH<sub>3</sub> Gas-Sensing Properties of ZnO Thin Films**  
Ozutok F., Karaduman I., Demiri S., ACAR S.  
JOURNAL OF ELECTRONIC MATERIALS, vol.47, pp.2648-2657, 2018 (Journal Indexed in SCI)
- **Optical and Electrochemical Properties of PB-ZnO and PB-ZnO/MWCNT Nanocomposite Films Deposited by Chemical Bath**  
Ozutok F., YAKAR E.  
JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS, vol.21, pp.119-126, 2018 (Journal Indexed in

SCI)

**NANOFLOWER-LIKE ZnO FILMS PREPARED BY MODIFIED CHEMICAL BATH DEPOSITION: SYNTHESIS, OPTICAL PROPERTIES AND NO<sub>2</sub> GAS SENSING MECHANISM**

Ozutok F., Demiri S.

DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, vol.12, pp.309-317, 2017 (Journal Indexed in SCI)

### Articles Published in Other Journals

**Synthesis, Analysis and Thermochemical Applications of Ionic Liquids**

SARF F.

Nanomedicine & Nanotechnology Open Access, vol.4, pp.159-165, 2019 (Refereed Journals of Other Institutions)

**Kompleks Etken Madde Oranına Bağlı Olarak ZnFe<sub>2</sub>O<sub>4</sub> Filmlerin İncelenmesi**

ÖZÜTOK F., YAKAR E.

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.4, pp.200-211, 2018

(National Refreed University Journal)

**Annealing Time Effect on the Optical Properties of Zn(O,OH,S) Films onto ZnO Seed Layer Under Unvacuum Ambient**

ÖZÜTOK F., YAKAR E.

Sakarya University Journal Of Science, vol.22, pp.1704-1710, 2018 (National Refreed University Journal)

### Books & Book Chapters

**Metal Oxide Gas Sensors by Nanostructures**

SARF F.

in: Gas Sensors, Sher Bahadar Khan, Editor, Intech Open Horizons Publishing Company, Londra, pp.1-18, 2019

### Refereed Congress / Symposium Publications in Proceedings

**Acid Treatment Effect on the Purification Properties of GNPs and MWCNTs**

Sarf F.

5. International Conference on Material Science and Technology, Niğde, Turkey, 16 - 18 October 2020

**Fe Ratio Effect in Fe:ZnO Nanoparticles as an Anode for Li-ion Batteries**

SARF F., KIZIL H., eroğlu ö.

16th International Conference on Nanosciences Nanotechnologies (NN19), Selanik, Greece, 2 - 06 July 2019

**OPTICAL CHARACTERIZATION OF WO<sub>3</sub> FILMS BY METAL DOPING**

SARF F., YAKAR E.

VI. INTERNATIONAL CONGRESS ON MATHEMATICS, ENGINEERING & NATURAL & HEALTH SCIENCES, Adana, Turkey, 8 - 10 March 2019

**CO-PRECIPIATION AND CHARACTERIZATION OF ZN DOPED CDO NANOPARTICLES**

YAKAR E., SARF F.

VI. INTERNATIONAL CONGRESS ON MATHEMATICS, ENGINEERING & NATURAL & HEALTH SCIENCES, Adana, Turkey, 8 - 10 March 2019, pp.368-377

**Etching effect on the CO gas sensitivity of MWCNT decorated ZnO seedlayers**

DEMİRİ S., ÖZÜTOK F., Karaduman I., ACAR S.

ISCMAP makenonia 2017, 25 - 27 August 2017

**Electrochromic NiO Thin Films Prepared by Spin Coating**

Ozutok F., Demiri S., Ozbek E.

32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016,

vol.1815

**ZnO OH S İnce Filmlerinin Zn S Molar Oranına Bağlı Olarak Değişen Optik Özellikleri**

SARF F., YAKAR E., Doğan G.

22. Yoğun Madde Fiziği, Ankara, Turkey, 16 December 2016

**Tavlama Sıcaklığına Bağlı Olarak Zn O S Filmlerinin Değişen Optik Özelliklerinin İncelenmesi**

SARF F., YAKAR E., Doğan G., Demiri S.

FOTONİK 2016, 18. ulusal optik, elektro-optik ve fotonik çalıştay, Ankara, Turkey, 23 October 2016

**Thermal annealing effects on the morphology and electrical properties of ZnO thin films**

DEMİRSELÇUK B., SARICA E., ÖZÜTOK F., BİLGİN V.

7th Nanoscience and Nanotechnology Conference, 27 June - 01 July 2011

**Growth, Electrical, and Optical Study of ZnS:Mn Thin Films**

SARF F., Ertürk K., BİLGİN V.

APMAS, Antalya, Turkey, 12 - 15 May 2011, vol.121, no.1, pp.221-223

**Study of Ultrasonically Sprayed ZnO Films: Thermal Annealing Effect**

SARF F., DEMİRSELÇUK B., Sarıca E., BİLGİN V.

APMAS, Antalya, Turkey, 12 - 15 May 2011, vol.121, no.1, pp.53-55

## Supported Projects

YAKAR E., SARF F., Project Supported by Higher Education Institutions, Li-İyon Pilleri için NiFe<sub>2</sub>O<sub>4</sub> Gözenekli Nanofiberlerinin Yüksek Kapasiteli Anot Malzemesi Olarak Sentezlenmesi ve Karakterizasyonu, 2019 - Continues

SARF F., KIZIL H., Project Supported by Higher Education Institutions, Lityum İyon Pilleri için ÇDKNT/Fe-ZnO Nanokompozit Anot Malzemesi Üretimi ve Karakterizasyonu, 2018 - 2020

YAKAR E., ÖZÜTOK F., Project Supported by Higher Education Institutions, Mikroyapıda ZnFe<sub>2</sub>O<sub>4</sub> Filmlerinin Kompleks Etmene Bağlı Olarak Değişen Optiksel ve Elektriksel Özelliklerinin İncelenmesi, 2017 - 2018

SARF F., Project Supported by Higher Education Institutions, Zn(O,OH,S) İnce Filmlerinin Elektriksel Özelliklerinin Optimize Edilerek Güneş Gözelerinde Tampon Tabaka Olarak Kullanımının Araştırılması, 2017 - 2017

SARF F., Project Supported by Higher Education Institutions, Kimyasal Banyolama Tekniği ile Üretilen Zn(O,S) İnce Filmlerinin Güneş Gözelerinde Tampon Tabaka Olarak Kullanımının İncelenmesi, 2016 - 2017

DEMİRİ S., ÖZÜTOK F., Project Supported by Higher Education Institutions, Sensör Uygulamaları için Metal Oksit İnce Filmlere Metal veya Karbon Nanotüp Modifikasyonu ile Nanokompozitlerin Eldesi, 2015 - 2016

BİLGİN V., SARICA E., ÖZÜTOK F., DEMİRSELÇUK B., Project Supported by Higher Education Institutions, Fotovoltaik uygulamalar için ITO ve n-ZnO ince filmlerin üretimi ve tavlama işlemi ile karakteristiklerinin iyileştirilmesi, 2010 - 2012

## Memberships / Tasks in Scientific Organizations

Global Journals Inc. (US), Member, 2019 - Continues

## Scientific Refereeing

Chemical Papers, SCI Journal, July 2020

Politeknik Dergisi, National Scientific Refreed Journal, May 2020

Project Supported by Higher Education Institutions, May 2020

Journal of Materials Science and Metallurgy , Other journals, September 2019

Material Science Research India, Other journals, August 2019

Material Science Research India, Other journals, July 2019

Material Science Research India, Other Indexed Journal, April 2019

Material Science Research India, Other Indexed Journal, March 2019

Sensors & Actuators: B. Chemical, SCI Journal, November 2018

## **Scientific Research / Working Group Memberships**

Enerji Sistemleri, İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, <http://microfluidics.itu.edu.tr/>, 2018 - Continues

## **Citations**

Total Citations (WOS):19

h-index (WOS):3

## **Scholarships**

MEB-CIMO İikili İşbirliđi Doktora Düzeyinde Araştırma Bursu, Official Institutions of Foreign Countries, 2015 - 2016

## **Awards**

SARF F., Genç Girişimci Yarışması, Celal Bayar Üniversitesi, May 2014