

Prof. Esra Zayim

Personal Information

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Address: İTÜ Fen Edebiyat Fakültesi Fizik Mühendisliği Maslak-İstanbul

Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Anabilim Dalı, Turkey 1995 - 2002

Postgraduate, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Turkey 1991 - 1994

Undergraduate, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Turkey 1986 - 1991

Foreign Languages

English

Dissertations

Postgraduate, Fe-B-Si Metalik Camlarının Kristalizasyon Kinetiğinin Magnetik Özellikler Üzerindeki Etkisi, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, 2016

Research Areas

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

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2012 - 2016

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2007 - 2015

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2003 - 2007

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1995 - 2003

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2016 - Continues

İstanbul Teknik Üniversitesi, Rektörlük, 2013 - Continues

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2006 - Continues

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 2008 - 2008

Courses

Physics II Lab., Undergraduate, 2015 - 2016

Jury Memberships

- Doctorate, Synthesize and Characterization of ZnSe Based Type I and Type II Heterostructure Nanostructures , İTÜ, July, 2017
- Doctorate, Production and Characterization of CdSe Based Binary/Binary and Ternary/Binary Heterostructure Multi Shell Quantum Dots, İTÜ, July, 2017
- Doctorate, Yüksek Hızlı Atomik Kuvvet Mikroskobu (YH-AKM) Geliştirilmesi Ve Çeşitli Uygulamaları , İTÜ, February, 2017
- Appointment Academic Staff, Profesörlük Kadrosu, İTÜ, February, 2017
- Doctorate, Sorting of Biological Cells In A Microfluidic Channel Using Holographic Optical Tweezers Combined With Raman Spectroscopy , İTÜ, January, 2017
- Doctorate, Electrospun P3ANA/PCL Nanofibers as Electroactive-Bioactive Biomaterial for Bone Tissue Regeneration: Synthesis, Characterization and Cell Studies , İTÜ, May, 2016
- Doctorate, Sezyum Atomik Gazında Optik Pompalama Ve Koherent Etkilerin Araştırılması , İTÜ, January, 2014
- Post Graduate, YLisans Tez Savunma, İTÜ, July, 2013

Supported Projects

- Altun M., Yedikardeş F. B. , Yıldırım C., Özkan Zayim E., Yavuz N., Project Supported by Higher Education Institutions, Yazıcı ile Karbon Malzeme Katkılı Organik Alan Etkili Transistörlerin Üretimi ve Modellenmesi, 2018 - 2020
- Yavuz N., Gökçeli G., Eksik O., Özkan Zayim E., Project Supported by Higher Education Institutions, Organik Güneş Pillerinde Metal ve Karbon Esaslı ITO Hibrit Anotların Geliştirilmesi, 2017 - 2020
- Zayim E., Project Supported by Higher Education Institutions, Preparation and characterization of fibers of tungsten oxide, 2016 - 2018
- Zayim E., Project Supported by Higher Education Institutions, Polimer ve Polimer/İnorganik Hibrit Malzemelerin Hidrofobik (Su itici) ve Oleofobik (yağ itici) Özelliklerinin İncelenmesi, 2014 - 2018
- Zayim E., Project Supported by Higher Education Institutions, Fabrication of Solid Electrochromic Devices, 2011 - 2018
- Zayim E., Project Supported by Higher Education Institutions, Sol-jel yöntemi kullanılarak hazırlanmış yansıtıcı WO₃/TiO₂ filmlerinin optik ve elektromik özellikleri, 2004 - 2018
- Zayim E., Project Supported by Higher Education Institutions, Islak kaplama yöntemi ile antibakterial ve hidrofobik yüzeyler, 2016 - 2017
- Zayim E., Project Supported by Higher Education Institutions, ITO İNCE FİMLERİN ÜRETİMİ, ELEKTRİKSEL VE OPTİKSEL ÖZELLİKLERİNİN KARAKTERİZASYONU, 2016 - 2017
- Zayim E., Project Supported by Higher Education Institutions, Titanyum Oksit ve Katkılı Titanyum Oksit İnce Filmlerin Hazırlanması ve Karakterizasyonu, 2012 - 2014
- Zayim E., Project Supported by Higher Education Institutions, Tungsten Oksit Tabanlı Elektromik Cihaz Tasarımı ve Karakterizasyonu, 2012 - 2014
- Zayim E., Project Supported by Higher Education Institutions, Katı Elektrolromik Cihaz Tasarımı, 2011 - 2012
- Zayim E., Project Supported by Higher Education Institutions, Gözenekli Titanyum Oksit İnce Filmlerinin Hazırlanması ve Karakterizasyonu, 2005 - 2006

Scientific Refereeing

- Journal of Alloys and Compounds, SCI Journal, May 2017
- Thin Solid Films, SCI Journal, April 2017
- Surface and Coatings Technology, SCI Journal, October 2016
- Solar Energy Materials and Solar, SCI Journal, October 2016

SDU Fen Bilimleri Dergisi, National Scientific Refreed Journal, October 2016
Journal of Alloys and Compounds, SCI Journal, August 2016
Journal of Alloys and Compounds, SCI Journal, January 2016
Solar Energy Materials and Solar Cells, SCI Journal, October 2015
Journal of Alloys and Compounds, SCI Journal, February 2015
Journal of Alloys and Compounds, SCI Journal, January 2015
Journal of Alloys and Compounds, SCI Journal, September 2014
Journal of Alloys and Compounds, SCI Journal, July 2014
Journal of Alloys and Compounds, SCI Journal, May 2014
Journal of Alloys and Compounds, SCI Journal, May 2010
Solar Energy Materials and Solar Cells, SCI Journal, April 2009
Solar Energy Materials and Solar Cells, SCI Journal, November 2008
Solar Energy Materials and Solar Cells, SCI Journal, November 2008

Edit Congress and Symposium Activities

12th ESG Conference, Attendee, Parma, Italy, 2014
SATF Conference & Exhibition, Attendee, --Seçiniz--, Turkey, 2014
ECOSS 30 European Conference on Surface Science, Attendee, Turkey, 2014
E-MRS Spring Meeting, Attendee, Lille, France, 2014
21th Annual International Conference on Composites or Nano Engineering, Attendee, --Seçiniz--, Spain, 2013
13th Conference of the European Ceramic Society, Attendee, Limoges, France, 2013
ImagineNano, Attendee, Bilbao, Spain, 2013
16. Uluslararası Metalurji ve Malzeme Kongresi, Attendee, İstanbul, Turkey, 2012
TFD 29. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2012
International Symposium on Ceramic Materials and Components for Energy and Environmental Applications, Attendee, Dresden, Germany, 2012
TMS 2012 Annual Meeting & Exhibition, Attendee, Florida, United States Of America, 2012
E-MRS Fall Meeting, Attendee, Warszawa, Poland, 2011
International Surface Threatment Symposium, Attendee, İstanbul, Turkey, 2011
8th International Meeting on Electrochromism (IME- 8), Attendee, Seoul, South Korea, 2008
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı (NanoTr4), Attendee, İstanbul, Turkey, 2008
Nanoscience & Nanotechnology Conference (NanoTr3), Attendee, Ankara, Turkey, 2007
7th International Meeting on Electrochromism (IME- 7), Attendee, İstanbul, Turkey, 2006
6th International Conference of the Balkan Physical Union Istanbul (BPU-6), Attendee, İstanbul, Turkey, 2006
6th International Conference of the Balkan Physical Union (BPU-6), Invited Speaker, İstanbul, Turkey, 2006
Türk Fizik Derneği 23. Fizik Kongresi, Invited Speaker, Muğla, Turkey, 2005
Türk Fizik Derneği 23. Fizik Kongresi, Attendee, Muğla, Turkey, 2005
Workshop on Synchrotron Radiation for the study of Magnetic Nanosystems, Attendee, Leuven, Belgium, 2004
Symposium on Magnetic Nanostructures, Attendee, Leuven, Belgium, 2004
6th International Meeting on Electrochromism (IME6), Attendee, Brno, Czech Republic, 2004
International Conference on the Physics, Chemistry and Engineering of Solar Cells (SCCELL-2004), Attendee, Badajoz, Spain, 2004
th European Ceramic Society Meeting, Attendee, İstanbul, Turkey, 2003
The 203rd Meeting of the Electrochemical Society, Attendee, Paris, France, 2003
Physics Department at K.U.Leuven University, Attendee, Leuven, Belgium, 2003
Scanning Probe Microscopy: Characterization, Nanofabrication and Device Application of Functional Materials, Attendee, Lisboa, Portugal, 2002
6th International Meeting on Electrochromism (IME6), Attendee, Colorado, United States Of America, 2002
American Vacuum Society Symposium, Attendee, Colorado, United States Of America, 2001

SPIE's Annual Meeting, Attendee, California, United States Of America, 2001

International Meeting on Electrochromism (IME4), Attendee, Uppsala, Sweden, 2000

4th International Conference on Thin Film Physics and Applications, Attendee, Shanghai, China, 2000

Workshop of Electronic and Magnetic Properties of Novel Transition Metalcompounds, Attendee, Bulgaria, 1998

Nato ASI on Supercconductivity Conference, Attendee, France, 1997

Citations

Total Citations (WOS):446

h-index (WOS):11