

# Prof. ERSEL ÖZKAZANÇ

## Personal Information

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## International Researcher IDs

ORCID: 0000-0001-7648-6498

Publons / Web Of Science ResearcherID: F-4954-2018

Yoksis Researcher ID: 151678

## Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1998 - 2006

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1994 - 1997

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1989 - 1994

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, PVDF (poli(vinilidin florür))'de moleküler yönelmenin dielektrik özellikler ve relaksasyon geçişleri üzerine etkisi, Kocaeli University, Fen Bilimleri Enstitüsü, 2005

Postgraduate, Axionların teorik ve deneysel güncel incelemesi, Kocaeli University, Fen Bilimleri Enstitüsü, 1997

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2024 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2013 - 2024

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2009 - 2013

Lecturer, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2000 - 2008

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 1995 - 2000

## Courses

Fizik 2, Undergraduate, 2023 - 2024  
Fizik 1, Undergraduate, 2023 - 2024  
Mekanik, Undergraduate, 2023 - 2024  
Polimer Fiziği, Postgraduate, 2020 - 2021  
Seminer, Postgraduate, 2019 - 2020  
Seminer, Doctorate, 2017 - 2018  
Polimerlerin Elektriksel Özellikleri, Doctorate, 2016 - 2017  
Elektrik ve Manyetizma, Undergraduate, 2015 - 2016  
Elektrik ve Manyetizma Laboratuvarı, Undergraduate, 2015 - 2016  
Mekanik Laboratuvarı, Undergraduate, 2015 - 2016  
Titreşim ve Dalgalar laboratuvarı, Undergraduate, 2013 - 2014

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

- I. **Multifunctional P(Py/NMPy) copolymer doped by DBSA for electronic, photoelectric and biomedical applications**  
ÖZKAZANÇ E., Yegin B., Gueven N. C., Kadir E. D., ÖZKAZANÇ H.  
SYNTHETIC METALS, vol.288, 2022 (SCI-Expanded)
- II. **Antimicrobial performance and charge transport mechanism of Poly (N-methylpyrrole)-boron nitride composite**  
Yegin B., ÖZKAZANÇ H., ER D. K., ÖZKAZANÇ E.  
MATERIALS CHEMISTRY AND PHYSICS, vol.278, 2022 (SCI-Expanded)
- III. **Poly(N-methylpyrrole) with high antibacterial activity synthesized via interfacial polymerization method**  
Elibal F., Gumustekin S., ÖZKAZANÇ H., ÖZKAZANÇ E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1242, 2021 (SCI-Expanded)
- IV. **Highly fluorescent and antimicrobial polyfuran based nanocomposites**  
ÖZKAZANÇ E., ÖZKAZANÇ H.  
Synthetic Metals, vol.261, 2020 (SCI-Expanded)
- V. **Multifunctional poly(N-methylpyrrole)/nano-oxide composites: Optoelectronic, charge transport and antibacterial properties**  
Özkazanç H., Menkuer M., Gündoğdu Ö., Özkazanç E.  
Polymer, vol.189, 2020 (SCI-Expanded)
- VI. **Multifunctional polyindole/nanometal-oxide composites: Optoelectronic and charge transport properties**  
Dogan E., ÖZKAZANÇ E., ÖZKAZANÇ H.  
SYNTHETIC METALS, vol.256, 2019 (SCI-Expanded)
- VII. **Multifunctional polyaniline/chloroplatinic acid composite material: Characterization and potential applications**  
ÖZKAZANÇ E., ÖZKAZANÇ H.  
POLYMER ENGINEERING AND SCIENCE, vol.59, no.1, pp.66-73, 2019 (SCI-Expanded)
- VIII. **Characterization and Charge Transport Mechanism of Multifunctional Polyfuran/Tin(IV) Oxide Composite**  
ÖZKAZANÇ E., ÖZKAZANÇ H., GÜNDOĞDU Ö.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, no.5, pp.2108-2120, 2018 (SCI-Expanded)
- IX. **Novel Nanocomposites of Polypyrrole Doped with Fullerene C-60**  
ÖZKAZANÇ H., ÖZKAZANÇ E.  
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.56, no.2, pp.83-96, 2017 (SCI-Expanded)
- X. **PTh/Co3O4 Nanocomposites as New Conducting Materials for Micro/Nano-Sized Electronic Devices**

- ÖZKAZANÇ E.  
Polymer Engineering And Science, vol.57, pp.1168-1178, 2017 (SCI-Expanded)
- XI. **Power-law conductivity in polythiophene/copper(II) acetylacetonate composites**  
ERDÖNMEZ S., ÖZKAZANÇ E.  
POLYMER INTERNATIONAL, vol.63, no.1, pp.31-36, 2014 (SCI-Expanded)
- XII. **Preparation and characterization of polypyrrole/selenium composites**  
ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H., GÜMÜŞ S.  
POLYMER ENGINEERING AND SCIENCE, vol.53, no.6, pp.1131-1137, 2013 (SCI-Expanded)
- XIII. **Polypyrrole/copper(II) acetylacetonate composites prepared by in situ chemical oxidative polymerisation**  
Ozkazanc E.  
SYNTHETIC METALS, vol.162, pp.1016-1023, 2012 (SCI-Expanded)
- XIV. **Synthesis, characterization and dielectric behavior of (ES)-form polyaniline/cerium(III)-nitrate-hexahydrate composites**  
Özkazanç E., Zor S., Özkazanç H., Güney H. Y., Abacı U.  
MATERIALS CHEMISTRY AND PHYSICS, vol.133, no.1, pp.356-362, 2012 (SCI-Expanded)
- XV. **Synthesis, Characterization, and AC Conductivity of Polyaniline/Selenium Composites**  
ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H.  
JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS, vol.51, no.11, pp.2122-2132, 2012 (SCI-Expanded)
- XVI. **Electrical Properties of Polyaniline-Manganese Chloride Composites**  
Özkazanç E., Zor S., Özkazanç H., Abacı U.  
POLYMER ENGINEERING AND SCIENCE, vol.51, no.4, pp.617-623, 2011 (SCI-Expanded)
- XVII. **Structural and Dielectric Properties of CuCl<sub>2</sub> and ZnCl<sub>2</sub> Doped Polyaniline**  
ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H.  
POLYMER COMPOSITES, vol.31, no.11, pp.1862-1868, 2010 (SCI-Expanded)
- XVIII. **Morphological and Dielectric Properties of Barium Chloride-Filled Poly(vinylidene fluoride) Films**  
Özkazanç E., Güney H. Y., Güner S., Abacı U.  
POLYMER COMPOSITES, vol.31, no.10, pp.1782-1789, 2010 (SCI-Expanded)
- XIX. **Synthesis, characterization, aggregation and thermal properties of a novel polymeric metal-free phthalocyanine and its metal complexes**  
BİLGİN A., YAĞCI Ç., YILDIZ U., ÖZKAZANÇ E., TARCAN E.  
POLYHEDRON, vol.28, no.11, pp.2268-2276, 2009 (SCI-Expanded)
- XX. **The Variation of the Dielectric Constant and Loss Index with Temperature and Draw Ratio in alpha-PVDF**  
ÖZKAZANÇ E., GÜNEY H. Y.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, no.4, pp.2482-2485, 2009 (SCI-Expanded)
- XXI. **The effect of uniaxial orientation on the dielectric relaxation behavior of alpha-PVDF**  
ÖZKAZANÇ E., GÜNEY H. Y., OSKAY T., TARCAN E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, no.6, pp.3878-3886, 2008 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Antibacterial Poly(N-Methylpyrrole)/BN Composite Obtained by Interfacial Polymerization**  
Yeğın B., Özkazanç H., Er K. D., Özkazanç E.  
4th International Conference on Life and Engineering Sciences, İstanbul, Turkey, 23 September 2021, pp.64
- II. **Effect of the metal oxide nanoparticles on the structural and dielectric properties of polyindole**  
DOĞAN E., MENKÜER M., ÖZKAZANÇ H., ÖZKAZANÇ E.  
1st International Balkan Chemistry Congress, 17 - 20 September 2018
- III. **Dielectric properties of POLYTHIOPHENE/COPPER (II) ACETYLACETONATE composites**  
ERDÖNMEZ S., ÖZKAZANÇ E.

1st International Conference on Organic Electronic Material Technologies (OEMT'2015), Elazığ, Turkey, 25 March 2015 - 28 May 2018

**IV. Yeni Polimerik Ftalosiyanın Sentezi, Karakterizasyonu, Agregasyonu ve Termal Özelliklerinin İncelenmesi**

BİLGİN A., YAĞCI Ç., YILDIZ U., ÖZKAZANÇ E., TARCAN E.

24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010

**V. CuCl<sub>2</sub> ve ZnCl<sub>2</sub> katkılanmış PANI'nin karakterizasyonu ve ac iletkenliği**

Özkazanç E., Zor S., Özkazanç H.

3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010, pp.90-0

**VI. BaCl<sub>2</sub> katkılanmanın PVDF'nin dielektrik özellikleri üzerine etkisi**

ÖZKAZANÇ E., GÜNEY H. Y., GÜNER S., ABACI U.

3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010

**VII. Sloxene Yapıların ve Gözenekli Silisyumun İnfrared Spektrumlarının İncelenmesi**

YÜKSEL B., KAYAHAN E., CANEL T., ÖZKAZANÇ E., KAYA A. U.

TFD Ulusal Fizik Kmgresi 17, Turkey, 27 - 31 October 1998

## Supported Projects

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, POLİ(PİROL/N-METİL PİROL) KOPOLİMERİNİN GRAM NEGATİF VE GRAM POZİTİF BAKTERİ TÜRLERİNE KARŞI AKTİVİTESİNİN İNCELENMESİ, 2021 - 2022

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, Pirol esaslı iletken polimerlerin antibakteriyel özelliklerinin incelenmesi, 2020 - 2021

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, N-Metil-Pirol Esaslı Kompozitlerin Antikorozif Özelliklerinin İncelenmesi, 2019 - 2020

ÖZKAZANÇ E., DOĞAN E., Project Supported by Higher Education Institutions, NANOMETAL-OKSİT KATKILANMIŞ POLİİNDOL ESASLI KOMPOZİTLERİN UYGULAMA ALANLARININ BELİRLENMESİ, 2018 - 2020

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, ALÜMİNYUM ÜZERİNE OKZALİK ASİT VE DBSA KARIŞIM ELEKTROLİTİNDE POLİPİROL VE POLİPİROL/ NANOMETALOKSİT KOMPOZİTLERİNİN ELEKTROKİMYASAL SENTEZİ VE ANTİKOROZİF ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019

ÖZKAZANÇ E., ÖZKAZANÇ H., TARCAN E., Project Supported by Higher Education Institutions, POLİFURAN/METAL-OKSİT(ZRO<sub>2</sub> VE CO<sub>3</sub>O<sub>4</sub>) NANOKOMPOZİTLERİNİN NANO ÖLÇEKLİ ELEKTRONİK DEVRELERDE ÇOK AMAÇLI FONKSİYONEL MALZEME OLARAK KULLANILABİLİRLİĞİNİN ARAŞTIRILMASI, 2016 - 2019

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, METALOKSİT KATKILANMIŞ POLİMER ESASLI NANOKOMPOZİT MALZEMELERİN NANO BOYUTLU ELEKTRONİK DEVRELERDE KULLANILABİLİRLİĞİNİN ARAŞTIRILMASI, 2015 - 2016

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, Yeni tür polimer ve kompozitlerinin süper kapasitör, batarya, transistör gibi teknolojik uygulamalara yönelik karakterizasyonu ve fiziksel özelliklerinin incelenmesi, 2013 - 2015

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, ORGANİK/İNORGANİK MALZEME İÇEREN POLİMERLERİN YAPISAL VE FİZİKSEL ÖZELLİKLERİNİN İNCELENMESİ, 2014 - 2014

ÖZKAZANÇ E., Project Supported by Higher Education Institutions, Metal Katyon katkılanmış Politiyofen esaslı kompozitlerin morfolojik, termal ve elektriksel özellikleri, 2010 - 2012

## Metrics

Publication: 28

Citation (WoS): 303

Citation (Scopus): 314

H-Index (WoS): 11

H-Index (Scopus): 12