

# Prof. HATİCE ÖZKAZANÇ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: F-6062-2018

Yoksis Researcher ID: 151684

## Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2004 - 2012

Postgraduate, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, Turkey 2001 - 2004

Undergraduate, Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1995 - 1999

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, POLİANİLİN VE POLİPİROL'ÜN KATYON KATKILAMA İLE FARKLI METALLER ÜZERİNE ELEKTROKİMYASAL SENTEZİ VE ANTİKOROZİF ÖZELLİKLERİNİN İNCELENMESİ, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2012

Postgraduate, POLİANYONLARLA KATKILANMIŞPOLİPİROL FİMLERİNİN ELEKTROKİMYASAL SENTEZİ VE KARAKTERİZASYONU, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2004

## Research Areas

Chemistry, Physical Chemistry, Conductive Polymers, Composites, Polymeric Films

## Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2023 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2021 - 2023

Lecturer PhD, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2017 - 2021

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2001 - 2017

## 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. **Corrosion protection behavior of poly(N-methylpyrrole)/boron nitride composite film on aluminum-1050**  
Guven N. C., ÖZKAZANÇ H.  
PROGRESS IN ORGANIC COATINGS, vol.164, 2022 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **Anticorrosive polypyrrole/zirconium-oxide composite film prepared in oxalic acid and dodecylbenzene sulfonic acid mix electrolyte**  
Menkuer M., ÖZKAZANÇ H.  
PROGRESS IN ORGANIC COATINGS, vol.147, 2020 (SCI-Expanded)
- VI. **Highly fluorescent and antimicrobial polyfuran based nanocomposites**  
ÖZKAZANÇ E., ÖZKAZANÇ H.  
Synthetic Metals, vol.261, 2020 (SCI-Expanded)
- VII. **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)
- VIII. **Multifunctional polyindole/nanometal-oxide composites: Optoelectronic and charge transport properties**  
Dogan E., ÖZKAZANÇ E., ÖZKAZANÇ H.  
SYNTHETIC METALS, vol.256, 2019 (SCI-Expanded)
- IX. **Anticorrosive properties of PPy vertical bar Co3O4 composite films coated on Al-1050 in OXA-DBSA mix electrolyte**  
Menkuer M., ÖZKAZANÇ H.  
SYNTHETIC METALS, vol.254, pp.10-21, 2019 (SCI-Expanded)
- X. **Electrodeposition of polypyrrole on copper surfaces in OXA-DBSA mix electrolyte and their corrosion behaviour**  
Menkuer M., ÖZKAZANÇ H.  
PROGRESS IN ORGANIC COATINGS, vol.130, pp.149-157, 2019 (SCI-Expanded)
- XI. **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)
- XII. **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)
- XIII. **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)

- XIV. **Characterization and Charge Transfer Mechanism of PIN-CdSe Nanocomposites**  
ÖZKAZANÇ H.  
POLYMER COMPOSITES, vol.37, no.10, pp.3057-3065, 2016 (SCI-Expanded)
- XV. **Novel nanocomposites based on polythiophene and zirconium dioxide**  
ÖZKAZANÇ H.  
MATERIALS RESEARCH BULLETIN, vol.73, pp.226-232, 2016 (SCI-Expanded)
- XVI. **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)
- XVII. **Electrochemical synthesis of polypyrrole (PPy) and PPy vertical bar metal composites on copper electrode and investigation of their anticorrosive properties**  
ÖZKAZANÇ H., ZOR S.  
PROGRESS IN ORGANIC COATINGS, vol.76, no.4, pp.720-728, 2013 (SCI-Expanded)
- XVIII. **Effect of titanium addition on corrosion properties of Al-Si eutectic alloys**  
Zor S., Zeren M., Özkazanç H., Karakulak E.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.48, no.5, pp.568-571, 2012 (SCI-Expanded)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **The inhibition effect of amides on aluminium corrosion in chloride solutions**  
Zor S., Özkazanç H.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.46, no.6, pp.727-733, 2010 (SCI-Expanded)
- XXIV. **Inhibition Effects of 4-Phenyl-3-Thiosemicarbazide on the Corrosion of Aluminum in 0.1 M HCl: Theoretical and Experimental Studies**  
ZOR S., ÖZKAZANÇ H., Arslan T., Kandemirli F.  
CORROSION, vol.66, no.4, 2010 (SCI-Expanded)
- XXV. **Effect of Cu content on the corrosion of Al-Si eutectic alloys in acidic solutions**  
ZOR S., ZEREN M., ÖZKAZANÇ H., Karakulak E.  
ANTI-CORROSION METHODS AND MATERIALS, vol.57, no.4, pp.185-191, 2010 (SCI-Expanded)
- XXVI. **Effect of ethylene diaminetetraacetic acid on the corrosion of aluminum in chloride solutions**  
ZOR S., ÖZKAZANÇ H., BİNGÜL M.  
MATERIALS SCIENCE, vol.44, no.6, pp.850-856, 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. **Döküm Corson alaşımlarının korozyon davranışı üzerine alaşım elementlerinin etkisi**  
Gürsoy N., Özkazanç H., Atapek Ş. H.  
VI. ULUSLARARASI MARMARA FEN BİLİMLERİ KONGRESİ, Kocaeli, Turkey, 21 - 22 May 2021, pp.471-475
- III. **Investigation of Corrosion Protection Behavior of Poly(n-methyl pyrrole) and Poly(n-methyl pyrrole)/boron nitride Composite Synthesized on Aluminum by Electrochemical Polymerization Method**  
Güven N. C., ÖZKAZANÇ H.  
International Aegean Symposiums, On Innovation Technologies & Engineering-III, İzmir, Turkey, 12 - 13 March 2021, pp.13
- IV. **Investigation of Corrosion Conservation Behavior of PPyCo3O4 Composites Added on Aluminum in Oxalic Acid and Dodecyl Benzene Sulfonic Acid Mixed Electrolyte in 0.1M HCl Solution**  
MENKÜER M., ÖZKAZANÇ H.  
1ST INTERNATIONAL BALKAN CHEMISTRY CONGRESS, Edirne, Turkey, 17 - 19 September 2018
- V. **Electrochemical Synthesis and Determination of Anticorrosive Properties of Polypyrrole on Copper by Oxalic Acid and Dodecyl Benzene Sulfonic Acid (DBSA) Mixed Electrolyte**  
ÖZKAZANÇ H., MENKÜER M.  
1ST INTERNATIONAL BALKAN CHEMISTRY CONGRESS, Edirne, Turkey, 17 - 19 September 2018
- VI. **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
- VII. **Investigation of the Effect of Cation Doped PANI on Corrosion of Aluminium in 0 1 M HCl**  
ÖZKAZANÇ H., ZOR S.  
The European Corrosion Congress, İstanbul, Turkey, 9 - 13 September 2012, vol.29
- VIII. **Electrochemical Synthesis of Polypyrrole PPy and PPy Metal Composites on Copper and Investigation of Their Anticorrosive Properties**  
ZOR S., ÖZKAZANÇ H.  
The European Corrosion Congress, İstanbul, Turkey, 9 - 13 September 2012, vol.727
- IX. **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
- X. **CuCl<sub>2</sub> ve ZnCl<sub>2</sub> Katkılanmış PANI nin Karakterizasyonu ve AC İletkenliği**  
ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H.  
3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010, pp.90
- XI. **The Inhibition Effect of Amides on Aluminum Corrosion in 0 1 M NaCl**  
ZOR S., ÖZKAZANÇ H.  
8th International Electrochemistry Meeting, Antalya, Turkey, 8 - 11 October 2009, pp.64
- XII. **Electrochemical Synthesis of Polypyrrole on Aluminum by Cation Doping and Investigation of Anti corrosive Properties**  
ÖZKAZANÇ H., ZOR S.  
8th International Electrochemistry Meeting, Antalya, Turkey, 8 - 11 October 2009, pp.150
- XIII. **Polianyonlarla Katkılanlanmış Polipirol Filmlerinin Elektrokimyasal Sentezi ve Karakterizasyonu**  
ÖZKAZANÇ H., ARCA M.  
7. Elektrokimya Günleri, Ankara, Turkey, 28 - 30 June 2006, pp.27

## Supported Projects

MERT O., KARAYÜNLÜ BOZBAŞ S., KARA Y. S., ÖZKAZANÇ H., Project Supported by Higher Education Institutions, Polimer ve Malzeme Ar Ge Laboratuvarı, 2020 - 2020

ÖZKAZANÇ H., Project Supported by Higher Education Institutions, Organik Çözücü Ortamında Kimyasal Polimerizasyon Yöntemiyle Hazırlanan İletken Polimer Esaslı Kompozitlerin Elektiriksel Ve Antibakteriyel Özellikleri, 2019 - 2020

ÖZKAZANÇ H., Project Supported by Higher Education Institutions, NANOMETAL-OKSİT KATKILI POLİPİROL ESASLI KOMPOZİTLERİN ELEKTRİKSEL VE OPTİK ÖZELLİKLERİNİN İNCELENEREK UYGULAMA ALANLARININ BELİRLENMESİ, 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 H., Project Supported by Higher Education Institutions, ELEKTROKİMYASAL YÖNTEMLE POLİMERİK KOMPOZİT MALZEMELERİN AKTİF METALLER ÜZERİNE SENTEZLENMESİ VE KOROZYON KORUMA DAVRANIŞLARININ İNCELENMESİ, 2017 - 2018

ÖZKAZANÇ H., Project Supported by Higher Education Institutions, İLETKEN POLİMER ESASLI NANO-KOMPOZİTLERİNİN ELEKTRONİK DEVRELERDE ÇOK AMAÇLI FONKSİYONEL MALZEME OLARAK KULLANILABİLİRLİĞİNİN ARAŞTIRILMASI, 2016 - 2017

ÖZKAZANÇ H., Project Supported by Higher Education Institutions, METAL OKSİT NANOPARÇACIK KATKILANMIŞ İLETKEN POLİMERLERİN GAZ SENSÖR UYGULAMALARINDA KULLANILMASI, 2013 - 2015

ÖZKAZANÇ H., Project Supported by Higher Education Institutions, POLİMER ESASLI MALZEMELERİN ELEKTRİKSEL VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2014 - 2014

## Metrics

Publication: 39

Citation (WoS): 293

Citation (Scopus): 313

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