

Assoc. Prof. ÜMÜT KADİROĞLU

Personal Information

Office Phone: [+90 262 303 2029](tel:+902623032029)

Fax Phone: [+90 262 303 2003](tel:+902623032003)

Email: umit.kadiroglu@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/umit.kadiroglu>

International Researcher IDs

ScholarID: Umut

ORCID: 0000-0001-8257-278X

Publons / Web Of Science ResearcherID: F-5734-2018

ScopusID: 57213907559

Yoksis Researcher ID: 23004

Education Information

Doctorate, University of Southampton, Kimya/ Elektrokimya, England 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Polymer Electrolyte/Electrode Interface, University Of Southampton, Kimya/ Elektrokimya, 2000

Research Areas

Chemistry, Physical Chemistry, Electrochemistry, Conductive Polymers, Natural Sciences

Academic Titles / Tasks

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2016 - Continues

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2000 - 2016

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 1993 - 2000

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2023 - Continues

Fakülte Kurulu Üyesi, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2023 - Continues

Deputy Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2020 - Continues

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2009 - 2011

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2004 - 2008

Courses

Elektrokimyasal Yöntemler ve Katı hal malzemelerde uygulamaları, Undergraduate, 2023 - 2024, 2022 - 2023
Bitirme Çalışması, Undergraduate, 2023 - 2024, 2022 - 2023
Bitirme Projesi, Undergraduate, 2023 - 2024, 2022 - 2023
Genel Kimya I-II, Undergraduate, 2022 - 2023
Mesleki İngilizce, Undergraduate, 2021 - 2022
FİZİKOKİMYA LAB, Associate Degree, 2017 - 2018
İLERİ ELEKTROKİMYA, Postgraduate, 2017 - 2018, 2016 - 2017
KİMYACILAR İÇİN MATEMATİK, Undergraduate, 2017 - 2018, 2016 - 2017
ELEKTROKİMYA, Undergraduate, 2017 - 2018, 2016 - 2017
KİMYASAL KİNİTİK, Undergraduate, 2016 - 2017
EMPEDANS SPEK. VE KATI MAT. VE SİST. UYG, Doctorate, 2016 - 2017
EMPEDANS SPEK. VE KATI MAT. VE SİST. UYG, Postgraduate, 2016 - 2017
Genel Kimya, Undergraduate, 2003 - 2004

Advising Theses

Kadiroğlu Ü., Polimer Elektrolitlerin Sentezi ve Karakterizasyonu, Postgraduate, F.İmge(Student), Continues
Kadiroğlu Ü., Lityum iyon piller için katot, anot ve polimer elektrolit malzemeler, Doctorate, Ö.Çelik(Student), Continues
Kadiroğlu Ü., Lityum iyon pilleri için katot malzemelerin sentezi, karakterizasyonu ve elektrokimyasal özelliklerinin incelenmesi, Postgraduate, G.Yıldırım(Student), Continues
Kadiroğlu Ü., Poli(EHA-ko-MMA)/PEG-lityum-iyon tabanlı polimer elektrolit sentezi, karakterizasyonu ve uygulamaları, Postgraduate, S.KAWISO(Student), 2023
Kadiroğlu Ü., POLİ(HEMA-ko-MMA) TABANLI LİTYUM-POLİMER ELEKTROLİTLERİN SENTEZİ, KARAKTERİZASYONU VE UYGULAMALARI, Postgraduate, İ.KARAARSLAN(Student), 2019
Kadiroğlu Ü., Polianyon bazlı lityum mangan borat ve lityum demir fosfat katot aktif maddelerinin sentezi, fiziksel ve elektrokimyasal özelliklerinin incelenmesi, Postgraduate, Ö.ÇUHADAR(Student), 2013
Kadiroğlu Ü., Polimer elektrolitlere plastikleştirici etkisinin incelenmesi, Postgraduate, S.HOCAOĞLU(Student), 2005
Kadiroğlu Ü., Lityum tuzu içeren iletken polimer elektrolitlerin iletkenliği ve termal özelliklerinin incelenmesi, Postgraduate, M.ÇUVAK(Student), 2004

Jury Memberships

Post Graduate, Post Graduate, Kocaeli Üniversitesi, July, 2023
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, February, 2023
Post Graduate, Post Graduate, Kocaeli Üniversitesi, October, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis and characterization of nano-V2O5 by flame spray pyrolysis, and its cathodic performance in Li-ion rechargeable batteries**
SEL S., DUYGULU O., Kadiroglu U., MACHIN N. E.
APPLIED SURFACE SCIENCE, vol.318, pp.150-156, 2014 (SCI-Expanded)
- II. **Effects of B2O3 Addition on Structural and Dielectric Properties of PVDF**
Kadiroğlu Ü., Abacı U., Güney H. Y.

- POLYMER ENGINEERING AND SCIENCE, vol.54, no.11, pp.2536-2543, 2014 (SCI-Expanded)
- III. **Optimization of LiFePO₄ synthesis by hydrothermal method**
MAZMAN M., CUHADAR O., UZUN D., AVCI E., BICER E., KAYPMAS T. C., Kadiroglu U.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.2, pp.297-308, 2014 (SCI-Expanded)
- IV. **Morphological and electrochemical properties of PPy, PANi bilayer films and enhanced stability of their electrochromic devices (PPy/PANi-PEDOT, PANi/PPy-PEDOT)**
Abacı U., Güney H. Y., Kadiroglu Ü.
ELECTROCHIMICA ACTA, vol.96, pp.214-224, 2013 (SCI-Expanded)
- V. **An analysis of nonlinear ion transport problem including arbitrary valences of oxidized and reduced species**
Hasanov A., Pektas B., Kadiroglu U.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.47, no.4, pp.1248-1262, 2010 (SCI-Expanded)
- VI. **Structural and Dielectrical Properties of MnO₂-V₂O₅-SnO Mixed Oxides System at 1023 K**
TARCAN E., KADİROĞLU Ü., Atalay Y., ESMER K.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.27, no.3, pp.141-149, 2008 (SCI-Expanded)
- VII. **Effects of different amount of As₂O₃ and TiO₂ on the chemical, physical and electrical properties of the base material MnO₂**
ESMER K., Kadiroglu U., TARCAN E., KAYAN A.
MATERIALS LETTERS, vol.59, no.10, pp.1125-1129, 2005 (SCI-Expanded)
- VIII. **Electrical and dielectrical properties of the MnO₂ doped with As₂O₃ and SnO**
KAYAN A., TARCAN E., Kadiroglu U., ESMER K.
MATERIALS LETTERS, vol.58, no.16, pp.2170-2174, 2004 (SCI-Expanded)

Books & Book Chapters

- I. **Kimya II**
KADİROĞLU Ü., MÜFTÜOĞLU A. E., GÜVEN A., ARTOK L., KÖSE M., GÜLLÜ M., CANER N., YILDIRIM K., KÖKEN N., KARAGÖLGE Z., et al.
Literatür, 2019
- II. **Kimya 1. Cilt**
Kadiroğlu Ü., Güven A., Yusufoglu A., Düz F. S., Artok L., Köse M., Güllü M., Caner N., Yıldırım K., Köken N., et al.
Literatür Yayınevi, İstanbul, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Lityum iyon Pilleri için B₂O₃ katkılı Li₂MoO₃ ve Li₂MoTiO₆ katot materyallerinin sentezi, karektarizasyonu ve elektrokimyasal özelliklerinin incelenmesi**
Yıldırım G., Çelik Ö., Kadiroğlu Ü.
ISCAR, Konya, Turkey, 25 - 26 December 2023, pp.1-4
- II. **BORON DOPED POLY(ε-CAPROLACTONE) BASED POLYMER BLEND LITHIUM SALTS MIXTURES FOR LITHIUM ION BATTERIES**
ÇELİK Ö., KADİROĞLU Ü.
2nd International Conference on Applied Engineering and Natural Sciences, 10 March 2022, pp.441
- III. **Lithium Salt Doped Polyacrylate Based Blend Copolymers As A Conductive Polymer Electrolyte For Lithium Ion Batteries**
KAYIMO S. K., ÇELİK Ö., KADİROĞLU Ü.
2nd International Conference on Applied Engineering and Natural Sciences, 10 March 2022, pp.442-446
- IV. **COMPOSITE CATHODE MATERIALS FOR LITHIUM ION BATTERIES**
KADİROĞLU Ü., ÇELİK Ö., Yıldırım G.

International Marmara Sciences Congress (Spring) 2021, Kocaeli, Turkey, 20 May 2021

- V. **LITHIUM SALT DOPED POLY(EHA-CO-MMA) AS A CONDUCTIVE POLYMER ELECTROLYTE FOR LITHIUM ION BATTERIES**
KAYIMO S. K., ÇELİK Ö., KADİROĞLU Ü.
International Marmara Sciences Congress (Spring) 2021, Kocaeli, Turkey, 20 May 2021
- VI. **Poly(ϵ -Caprolactone) Based Polymer Blend Lithium Salts Mixtures for Lithium Ion Batteries**
KADİROĞLU Ü., ÇELİK Ö.
electrochem-2019, 30 September - 02 October 2019, pp.56
- VII. **Lithium Salt Doped Poly(MMA-co-HEMA)/POMOE Blends as a Conductive Polymer Electrolyte for Lithium Ion Batteries**
ÇELİK Ö., karaarslan i., KADİROĞLU Ü.
PCFM'xx18, 19 - 21 June 2018
- VIII. **PEG-Based Polymer Blend Lithium Salts Mixtures For Lithium Ion Batteries**
ÇELİK Ö., Karaarslan İ., KADİROĞLU Ü.
PCFM'xx18, 18 - 21 June 2018
- IX. **POMOE-Based polymer Blend Lithium Salts Mixtures For Lithium Ion Batteries**
ÇELİK Ö., KADİROĞLU Ü.
3. Uluslararası Temel ve Uygulamalı Bilimlerdeki Gelişmeler Konf., 9 - 12 May 2018
- X. **B2O3 Doped Poly(MMA-co-HEMA)/PEG Blend Polymer Electrolyte for Lithium Ion Batteries**
ÇELİK Ö., KARAASLAN İ., KADİROĞLU Ü.
INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES ICSMD-2017, 17 - 19 August 2017
- XI. **synthesis and characterization of H3PO4 doped triazole containing proton conductşve polymer for PEMFCs**
ÇELİK Ö., Şener T., KADİROĞLU Ü., MÜFTÜOĞLU A. E., Yılmaz F.
46 th IUPAC world polymer congress (macro 2016), İstanbul, Turkey, 17 - 21 July 2016, pp.291
- XII. **Lithium salt doped poly(MMA-co-HEMA) conductive polymer electrolyte for lithium ion batteries**
KARAARSLAN İ., ÇELİK Ö., KADİROĞLU Ü.
MACRO2016 WORLD POLYMER CONGRESS, 17 - 21 July 2016
- XIII. **Synthesis and Characterization of H3PO4 doped triazole containing proton conductive polymer for PEMFCs**
ÇELİK Ö., ŞENER T., KADİROĞLU Ü., MÜFTÜOĞLU A. E., YILMAZ F.
MACRO2016 WORLD POLYMER CONGRESS, 17 - 21 July 2016
- XIV. **Lithium Doped Poly MMA co HEMA conductive polymer electrolyte for lithium ion batteries**
karaarslan İ., ÇELİK Ö., KADİROĞLU Ü.
46 th IUPAC World Polymer Congress, İstanbul, Turkey, 17 - 21 July 2016, pp.291
- XV. **Synthesis and Characterization of LiBO4 Doped Conductive Polymer Electrolyte for Lithium Ion Batteries**
ÇELİK Ö., KADİROĞLU Ü.
1stInternational Advanced and Functional Materials Technologies (AFMAT) 2015, 26 - 28 October 2015
- XVI. **Polyaniline polypyrrole bilayer electrochromic films and enhanced stability their electrochromic devices PANi PPy PEDOT PPy PANi PEDOT**
ABACI U., GÜNEY H. Y., KADİROĞLU Ü.
Advanced Materials World Congress, İzmir, Turkey, 16 - 19 September 2013
- XVII. **Characterization and Investigation of Electrochemical Properties of Lithium doped Nanoparticle V2O5 cathode material For Lithium Polymer Batteries**
KADİROĞLU Ü.
Electrochem13, Konya, Turkey, 04 September 2013, pp.56
- XVIII. **Synthesis and Characterization of Novel Polymeric Phthalocyanines Bearing N N Bis Ethyleneoxy p Nitroaniline Moieties**
BİLGİN A., YANMAZ D., YAĞCI Ç., KADİROĞLU Ü.
IUPAC 2013, İstanbul, Turkey, 11 - 16 June 2013

- XIX. **Polimer Elektrolitlerin İyonik İletkenliğine Plastikleştirici Etkisinin İncelenmesi**
KADİROĞLU Ü.
7.Elektrokimya Günleri, Ankara, Turkey, 28 October 2006, pp.598
- XX. **The stability of thin PEO based electrolyte films with lithium metal**
KADİROĞLU Ü.
the International Meeting on Lithium Batteries, 1998, Edinburgh, United Kingdom, 07 September 1998, pp.154
- XXI. **The effects of Water in Lithium Polymer Cells**
Iqbal I., KADİROĞLU Ü., Emmanuel E., Owen J.
Symposium on Lithium Polymer Batteries, at the 190th Meeting of the Electrochemical-Society, San-Antonio, Northern Mariana Islands, 6 - 11 October 1996, vol.96, pp.34-43
- XXII. **The effect of water on the polymer electrolyte Li interfaces**
KADİROĞLU Ü.
Electrochem'97, London, London, United Kingdom, 29 August 1997, pp.62
- XXIII. **The effects of water in lithium-polymer cells**
Ismail I., Kadiroglu Ü., Eweka E., Owen J.
Symposium on Lithium Polymer Batteries, at the 190th Meeting of the Electrochemical-Society, San-Antonio, Northern Mariana Islands, 6 - 11 October 1996, vol.96, pp.34-43
- XXIV. **The interface between Li₂WO₃ and a polymer electrolyte**
KADİROĞLU Ü.
Electrochem'96, Bath, Bath, United Kingdom, 10 September 1996, pp.35
- XXV. **polymer electrolyte interfaces**
KADİROĞLU Ü.
Electrochem'95, Bangor, Bangor, United Kingdom, 10 September 1995, pp.41

Supported Projects

KADİROĞLU Ü., ÇELİK Ö., Project Supported by Higher Education Institutions, LİTYUM POLİMER PİLLER İÇİN YENİ BİYOBÖZÜNÜR POLİMER ELEKTROLİTLERİN ÜRETİLMESİ VE FİZİKSEL VE ELEKTROKİMYASAL ÖZELLİKLERİNİN ARAŞTIRILMASI, 2017 - 2019

KADİROĞLU Ü., Project Supported by Higher Education Institutions, POLİMER ELEKTROLİT MALZEME SENTEZİ VE KARAKTERİZASYONU, 2015 - 2016

KADİROĞLU Ü., Project Supported by Higher Education Institutions, LiMnB₂O₅ ve LiB₃O₅ Elektrotlarının ve Polimer Karışımı (Blend)-Li Tuzu elektrolitlerinin Hazırlanması, Elektrokimyasal ve Fiziksel Özelliklerinin İncelenmesi ve Düşme Pillerinin Hazırlanıp Test Edilmesi, 2012 - 2014

Memberships / Tasks in Scientific Organizations

International Electrochemical Society, Member, 1994 - 2009

Royal Society of Chemistry, Member, 1994 - 2000

Scientific Refereeing

TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Kocaeli University, Turkey, February 2023

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, September 2020

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, August 2020

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, March 2020

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, January 2020

MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, October 2019
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, March 2018
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, July 2017
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, July 2016
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, September 2015
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, June 2015
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, January 2015
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, May 2014
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, October 2013
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, September 2013
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, July 2013

Scientific Consultations

TUBİTAK, Project Consultancy, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, Turkey, 2023 - Continues

Metrics

Publication: 35
Citation (WoS): 114
Citation (Scopus): 131
H-Index (WoS): 5
H-Index (Scopus): 5

Non Academic Experience

Giyim San.
Giyim San.