

Assoc. Prof. HACIBAYRAM ZENGİN

Personal Information

Email: hbzengin@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/hbzengin>

International Researcher IDs

ORCID: 0000-0003-3861-6671

Yoksis Researcher ID: 53962

Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1994 - 1999

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1991 - 1994

Undergraduate, Sivas Cumhuriyet University, Fen-Edebiyat Fakültesi, Kimya Pr., Turkey 1986 - 1990

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı maleik anhidrid kopolimerlerinin değişik amid ve imid türevlerinin sentezi ve ısıl bozunması, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1999

Postgraduate, Karboksil uç gruplu polistiren/poli (vinil klorür) karışımlarının ısıl jelleşmesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1994

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2000 - Continues

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 1993 - 2000

Academic and Administrative Experience

Sivas Cumhuriyet Üniversitesi, İmranlı Meslek Yüksekokulu, Yönetim Ve Organizasyon Bölümü, 2010 - 2016

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2004 - 2009

Courses

Bitirme Ödevi/Tezi, Undergraduate, 2019 - 2020

Fizikokimya-II, Undergraduate, 2018 - 2019

İleri Polimer Kimyası-II, Postgraduate, 2018 - 2019

Genel Kimya Lab. - II, Undergraduate, 2018 - 2019

Fizikokimya-I, Undergraduate, 2019 - 2020
Fizikokimya-II, Undergraduate, 2018 - 2019
Genel Kimya, Undergraduate, 2019 - 2020
Genel Kimya Laboratuvarı II, Undergraduate, 2018 - 2019
Genel Kimya, Undergraduate, 2019 - 2020
Genel Kimya Laboratuvarı, Undergraduate, 2018 - 2019
Bitirme Ödevi/Tezi, Undergraduate, 2018 - 2019
Fizikokimya-I, Undergraduate, 2018 - 2019
Kimyasal Hesaplamalar, Undergraduate, 2018 - 2019
Polimer Kimyasında Deneysel Yöntemler-I, Postgraduate, 2018 - 2019
Kimyasal Kinetik ve Kataliz, Undergraduate, 2018 - 2019
KİM2059 KİMYADA MAT. YÖN., Undergraduate, 2017 - 2018
Genel Kimya Lab.I, Undergraduate, 2017 - 2018
Genel Kimya Laboratuvarı, Associate Degree, 2016 - 2017
KİM1041 GENEL KİMYA, Undergraduate, 2016 - 2017
Kimyada Matematiksel Yöntemler, Undergraduate, 2017 - 2018
KİM3007 FİZİKOKİMYA-I, Undergraduate, 2016 - 2017
Seminer Dersi, Postgraduate, 2017 - 2018
Genel Kimya Laboratuvarı I, Undergraduate, 2017 - 2018
Kimyada Matematiksel Yöntemler, Undergraduate, 2017 - 2018
Fizikokimya-II, Undergraduate, 2016 - 2017
Uzmanlık Alan Dersi, Postgraduate, 2016 - 2017
GENEL KİMYA LAB, Undergraduate, 2016 - 2017
Fizikokimya-I, Undergraduate, 2016 - 2017
Genel Kimya II, Undergraduate, 2014 - 2015
Genel Kimya I, Undergraduate, 2015 - 2016
Biyokimya Lab, Undergraduate, 2014 - 2015
Biyokimya Lab, Undergraduate, 2014 - 2015
Kimyasal Kinetik Ve Kataliz, Undergraduate, 2015 - 2016
Genel Kimya II, Undergraduate, 2014 - 2015
Genel Kimya I, Undergraduate, 2014 - 2015
Genel Kimya - I, Undergraduate, 2014 - 2015
Nanokimya, Undergraduate, 2013 - 2014
Kimyasal Kinetik ve Kataliz, Undergraduate, 2014 - 2015
Genel Kimya Laboratuvarı II, Undergraduate, 2013 - 2014
Nanokimya, Undergraduate, 2013 - 2014
Fizikokimya-I, Undergraduate, 2011 - 2012
Fizikokimya-II, Undergraduate, 2012 - 2013
Kimyada Matematiksel Yöntemler, Undergraduate, 2011 - 2012
Kolloid Kimyası, Undergraduate, 2008 - 2009
Kimyada Matematiksel Yöntemler, Undergraduate, 2009 - 2010
Genel Kimya Laboratuvarı I, Undergraduate, 2008 - 2009
Kolloid Kimyası, Undergraduate, 2008 - 2009
Fizikokimya Lab, Undergraduate, 2008 - 2009
Kimya, Undergraduate, 2008 - 2009
FizikoKimya Lab., Undergraduate, 2007 - 2008
Kimyasal Hesaplamalar, Undergraduate, 2006 - 2007
Genel Kimya - II, Undergraduate, 2005 - 2006
Kimyasal Hesaplamalar, Undergraduate, 2006 - 2007
Genel Kimya - II, Undergraduate, 2004 - 2005
FizikoKimya Lab., Undergraduate, 2005 - 2006

Advising Theses

ZENGİN H., Bazı Maleik Anhidrit Kopolimerinin ve türevlerinin sulardaki ağır metal iyonlarının ve boyarmaddelerin giderilmesinde kullanımı, Postgraduate, M.YILDIRIM(Student), 2011

ZENGİN H., Maleik anhidrit-stiren-allilfenileter terpolimerinin değişik amid ve imid türevlerinin sentezi ve karakterizasyonu, Postgraduate, A.ÖZER(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pre-concentration of trace Mn from dairy products through a pH-induced tautomerization/charge transfer complexation before spectrophotometric analysis**
GÜRKAN R., ZENGİN H.
Chemical Papers, vol.78, no.5, pp.2915-2931, 2024 (SCI-Expanded)
- II. **A pH-dependent CT sensitive method for detection of trace Mn in milk by UV-spectrophotometry**
ZENGİN H.
Journal of Food Composition and Analysis, vol.124, 2023 (SCI-Expanded)
- III. **A new pre-concentration procedure based on poly(styrene-co-maleamide and imide) copolymers modified with 2-hydrazinobenzothiazole prior to spectrophotometric monitoring of inorganic As (as As(III)) in edible vegetable oils**
GÜRKAN R., ZENGİN H.
Food Chemistry, vol.409, 2023 (SCI-Expanded)
- IV. **Novel amide- and imide-co-polymers modified with sulfathiazole as efficient chelator for selective extraction, pre-concentration and determination of trace inorganic antimony (as Sb(III)) from edible vegetable oils by ultrasound assisted-cloud point extraction coupled to micro-volume UV-spectrophotometry**
ZENGİN H., GÜRKAN R.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.115, 2023 (SCI-Expanded)
- V. **Application of ultrasound assisted-cloud point extraction coupled with spectrophotometry for the selective extraction/pre-concentration of low levels of inorganic Hg (as Hg²⁺/Hg²⁺) from liquid matrices**
GÜRKAN R., ZENGİN H.
International Journal of Environmental Analytical Chemistry, 2023 (SCI-Expanded)
- VI. **pH-controlled charge transfer sensitive 2-aminobenzimidazole modified poly(styrene-co-maleic anhydride) copolymer for selective extraction, pre-concentration and determination of trace Hg²⁺ and CH₃Hg⁺ in vinegar by combination of ultrasound assisted-cloud point extraction with UV-VIS spectrophotometry**
Zengin H., Guerkan R.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.114, 2022 (SCI-Expanded)
- VII. **A magnetic nanocomposite based on amine-functionalized pH-sensitive functional poly(styrene-co-maleic anhydride) copolymer for selective extraction, pre-concentration and determination of sub-trace Ag⁺ and Cu²⁺ ions from edible vegetable oils by a combination of spectrophotometry and ultrasound-assisted cloud point extraction**
ZENGİN H., GÜRKAN R.
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.19, no.5, pp.1669-1688, 2022 (SCI-Expanded)
- VIII. **Use of new polymeric composites for preconcentration of trace Ag⁺ ions from the selected mushroom/vegetables by ultrasound-assisted cloud-point extraction coupled to microvolume UV-Vis spectrophotometry**

ZENGİN H.

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.101, no.14, pp.1978-2002, 2021 (SCI-Expanded)

- IX. **Eco-friendly trace analysis of silver in beer/wine samples using a new co-polymeric nanocomposite based-ultrasound assisted-cloud point extraction combined with spectrophotometry**
ZENGİN H., GÜRKAN R.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.98, 2021 (SCI-Expanded)
- X. **Application of a novel poly(SMAm)-Tris-Fe₃O₄ nanocomposite for selective extraction and enrichment of Cu(I) /Cu(II) from beer, soft drinks and wine samples, and speciation analysis by micro-volume UV-Vis spectrophotometry**
ZENGİN H., GÜRKAN R.
TALANTA, vol.224, 2021 (SCI-Expanded)
- XI. **Selective extraction of Cu⁺ and Cu²⁺ ions from mushroom and lichen samples prior to analysis by micro-volume UV-Vis spectrophotometry: Application of a novel poly (SMIm)-Tris-Fe₃O₄ nanocomposite**
ZENGİN H., Marsan H., GÜRKAN R.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.91, 2020 (SCI-Expanded)
- XII. **Use of 2-Hydrazinobenzothiazole-Modified Copolymer(s) as Potential Chelating Agent for Sensitive and Selective Determination of Low Levels of Mercury in Seafood by Ultrasound-Assisted Cloud-Point Extraction Combined with Spectrophotometry**
ZENGİN H., GÜRKAN R.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.191, no.1, pp.254-268, 2019 (SCI-Expanded)
- XIII. **Synthesis, structural characterization, and antiproliferative/cytotoxic effects of a novel modified poly(maleic anhydride-co-vinyl acetate)/doxorubicin conjugate**
KARAKUŞ G., Ece A., Yağlıoğlu A. Ş., Zengin H., Karahan M.
POLYMER BULLETIN, vol.74, no.6, pp.2159-2184, 2017 (SCI-Expanded)
- XIV. **Cytotoxicity of three maleic anhydride copolymers and common solvents used for polymer solvation**
KARAKUŞ G., Zengin H., Polat Z., YENİDÜNYA A. F., Aydın S.
POLYMER BULLETIN, vol.70, no.5, pp.1591-1612, 2013 (SCI-Expanded)
- XV. **Synthesis, characterization and cytotoxicity of novel modified poly[(maleic anhydride)-co-(vinyl acetate)]/noradrenaline conjugate**
KARAKUŞ G., Polat Z., YENİDÜNYA A. F., Zengin H., Karakus C. B.
POLYMER INTERNATIONAL, vol.62, no.3, pp.492-500, 2013 (SCI-Expanded)
- XVI. **Modification of Maleic Anhydride-Styrene Copolymer with Noradrenaline by Chemical and Enzymatic Methods**
KARAKUŞ G., YENİDÜNYA A. F., Zengin H., Polat Z.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.122, no.4, pp.2821-2828, 2011 (SCI-Expanded)
- XVII. **Viscometric investigation of compatibilization of the poly(vinyl chloride)/poly(ethylene-co-vinyl acetate) blends by terpolymer of maleic anhydride-styrene-vinyl acetate**
İMREN KOÇ D., BOZTUĞ A., YILMAZ E., Zengin H.
JOURNAL OF MOLECULAR STRUCTURE, vol.891, pp.329-332, 2008 (SCI-Expanded)
- XVIII. **Chemical modification and thermal characterisation of poly(allylpropionate-alt-maleic anhydride) copolymer modified by hexamethylenediamine**
Zengin H., Boztug A., Yilmaz E.
MATERIALS RESEARCH INNOVATIONS, vol.12, no.2, pp.90-93, 2008 (SCI-Expanded)
- XIX. **Investigation of effects of reactive copolymer containing maleic anhydride on thermomechanical properties of ternary blends of poly(methyl metacrylate) (PMMA)**
Zengin H., Boztug A., Bolayir G.
MATERIALS RESEARCH INNOVATIONS, vol.11, no.4, pp.193-196, 2007 (SCI-Expanded)
- XX. **The effects of maleic anhydride terpolymer and its ester derivatives on tensile bond strength between the acrylic resin and resilient lining material**

Dogan O. M., Bolayir G., Boztug A., Turgut M., Zengin H.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.2, pp.1338-1341, 2007 (SCI-Expanded)

XXI. Synthesis and comparative study of thermal stabilities of the imidization of some maleic anhydride copolymers

Zengin H., Boztug A., Basan S.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.4, pp.2250-2254, 2006 (SCI-Expanded)

XXII. Preparation of compatible blends of poly(methyl methacrylate) used in dentistry with a reactive terpolymer containing maleic anhydride and their thermomechanical characterization

Boztug A., Coskun A., Bolayir G., Zengin H., Ozdemir A.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.100, no.1, pp.363-367, 2006 (SCI-Expanded)

XXIII. Determination of gelation temperature of poly(vinyl chloride) by thermomechanical and thermogravimetric parameters

Boztug A., Zengin H., Basan S.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.96, no.5, pp.1635-1640, 2005 (SCI-Expanded)

XXIV. Thermomechanical and thermogravimetric analysis of blends of poly (vinyl chloride) (PVC) with maleic anhydride-allyl propionate copolymer

Boztug A., Zengin H., Basan S.

JOURNAL OF MOLECULAR STRUCTURE, vol.697, pp.61-64, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Adsorption of Uranyl Ions in Aqueous Solutions of Maleic Anhydride-alt-Styrene Copolymers**
ZENGİN H.
Cumhuriyet Science Journal, vol.38, no.3, pp.581-587, 2017 (Peer-Reviewed Journal)
- II. **Maleik Anhidrit Vinil Asetat Kopolimerinin Ester ve Karboksilat Tuz Türevlerinin Sentezi ve Karakterizasyonu**
KOÇYİĞİT Ü. M., ZENGİN H.
Cumhuriyet Science Journal, vol.36, no.5, pp.47, 2015 (Peer-Reviewed Journal)
- III. **Synthesis characterization and antiproliferative activities of novel modified poly maleic anhydride co vinyl acetate cytosine Darabinofuranoside hydrochloride conjugate**
KARAKUŞ G., ŞAHİN YAĞLIOĞLU A., ZENGİN H., KARAKUŞ N.
MARMARA PHARMACEUTICAL JOURNAL, vol.1, no.19, pp.73-81, 2015 (Scopus)
- IV. **Maleik Anhidrit Stiren Kopolimerinin Ester ve Karboksilat Tuz Türevlerinin Sentezi ve Karakterizasyonu**
KOÇYİĞİT Ü. M., ZENGİN H.
C.Ü. Fen-Edebiyat Fakültesi Fen Bilimleri Dergisi, vol.35, no.3, pp.23-35, 2014 (Peer-Reviewed Journal)
- V. **Maleik anhidrit stiren Kopolimerinin amid ve imid türevlerinin sentezi ve ısıl davranışları**
ZENGİN H., BASAN S.
C.Ü. Fen-Edebiyat Fakültesi Fen Bilimleri Dergisi, vol.26, no.2, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of mechanisms of amide and imide derivative of maleic anhydride-alt-styrene copolymer by using TGA-FTIR analysis**
ZENGİN H., KARAKUŞ G.
I. International Scientific and Vocational Studies Congress, Nevşehir/ Ürgüp, Turkey, 5 - 08 October 2017
- II. **Bazı aminlerle modifiye edilmiş poli(allilfenileter-ard-maleik anhidrit) kopolimerlerinin kimyasal midifikasyonu ve ısıl karakterizasyonu**
ZENGİN H.

29.Ulusal kimya kongresi 10-14 eylül 2017 Ankara-ODTÜ KKM, Turkey, 10 - 14 September 2017

- III. **Bazı maleik anhidrit kopolimerinin alkollerle ve bazlarla etkileştirip ester ve karboksilat tuzlarının türevlerinin sentezi ve karakterizasyonu**
ZENGİN H., KOÇYİĞİT Ü. M.
23. Ulusal kimya kongresi 2009 sivas, Turkey, 16 - 20 June 2009
- IV. **Bazı maleik anhidrid kopolimerlerinde uranil iyonu adsorpsiyonu**
ZENGİN H., BOZTUĞ A., SARAYDIN D.
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004
- V. **Bazı maleik anhidrid kopolimerlerinde thiazin grubu boyarmaddelerin sulu çözeltiden adsorpsiyonu**
ZENGİN H., BOZTUĞ A., SARAYDIN D.
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004
- VI. **Maleik anhidrit ard stiren kopolimerinde uranil iyonu adsorpsiyonu**
ZENGİN H., BOZTUĞ A., ÖZER A., SARAYDIN D.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002
- VII. **Maleik anhidrit stiren metil metakrilat terpolimerinin uranil iyonu ile etkileşimi**
BOZTUĞ A., ZENGİN H., BASAN S., SARAYDIN D.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002
- VIII. **Maleik anhidrit allil propiyonat Kopolimerinin Ester Türevlerinin Hazırlanması ve Karakterizasyonu**
279
ZENGİN H., BOZTUĞ A., BASAN S.
XIV. Ulusal Kimya Kongresi, Diyarbakır, 2000, Turkey, 10 - 15 September 2000
- IX. **Maleik anhidrit stiren vinil asetat Terpolimerinin Amidik Asitlerinin hazırlanması ve Karakterizasyonu**
BOZTUĞ A., ZENGİN H., BASAN S.
XIV. Ulusal Kimya Kongresi, Diyarbakır, 2000, Turkey, 10 - 15 September 2000
- X. **Maleik Anhidrid Stiren Kopolimerinin Amid ve İmid Türevlerinin Sentezi ve Karakterizasyonu s 229**
238 Poster sunum
ZENGİN H., BASAN S., Akberov O. H.
II. Kızılırmak Uluslar arası Fen Bilimleri Kongresi Kırıkkale 1998, 05 May 1998
- XI. **Maleik Anhidrid Allil Propiyonat Kopolimerinin Amid ve İmid Türevlerinin Sentezi ve Karakterizasyonu s 239 248 Poster sunum**
ZENGİN H., BASAN S., Akberov O. H.
II. Kızılırmak Uluslar arası Fen Bilimleri Kongresi Kırıkkale 1998, 05 May 1998
- XII. **Maleik anhidrit- allil propiyonat-Kopolimeri ile Poli(vinil klorür) Karışımlarının Termomekanik Analizi**
BOZTUĞ A., BASAN S., ZENGİN H.
7. Malzeme Sempozyumu, Pamukkale Üniversitesi, 11 - 15 May 1997
- XIII. **MA AP Kopolimeri ile Poli vinil klorür Karışımlarının ısısal Bozunması**
BASAN S., BOZTUĞ A., ZENGİN H.
Türkçe Konuşulan Ülkeler 4. Polimer Sempozyumu, 18 - 20 September 1996
- XIV. **Bazı İletken Kopolimer ve Kompozitlerin ısısal Bozunması**
BASAN S., ZENGİN H., Rastghooskoui H., Talu M.
Kimya-93 IX Kimya ve Kimya Mühendisliği sempozyumu Trabzon, Turkey, 20 - 24 September 1993

Metrics

Publication: 48

Citation (WoS): 95

Citation (Scopus): 123

H-Index (WoS): 6

H-Index (Scopus): 7

Non Academic Experience

Bakü Devlet Üniversitesi