

Assoc. Prof. FEYZA KOLCU



Personal Information

Office Phone: [+90 286 522 6104](tel:+902865226104) Extension: 1038

Email: feyzakolcu@comu.edu.tr

Web: <https://avesis.comu.edu.tr/feyzakolcu>

International Researcher IDs

ScholarID: mtF5IFwAAAAJ

ORCID: 0000-0002-2004-8859

Publons / Web Of Science ResearcherID: CAA-2963-2022

ScopusID: 55959291700

Yoksis Researcher ID: 37797



Education Information

Doctorate, Bogazici University, Institute Of Science, Kimya, Turkey 1995 - 2001

Postgraduate, Bogazici University, Institute Of Science, Kimya, Turkey 1991 - 1993

Undergraduate, Bogazici University, Faculty Of Arts And Sciences, Kimya, Turkey 1987 - 1991

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Modelling the Hydrogen Abstraction from Organic Pollutants, Bogazici University, Institute Of Science, Chemistry, 2001

Postgraduate, Interfacial Studies of Microemulsion-based Organo-gels, Bogazici University, Institute Of Science, 1993

Research Areas

Chemistry, Physical Chemistry, Functional Polymers, Conductive Polymers, Chemical Kinetics, Quantum Mechanics, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Materials, Spectroscopy, Coordination Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2020 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2018 - 2020

Assistant Professor, Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2011 - 2018

Lecturer PhD, Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2010 - 2011

Lecturer PhD, Bogazici University, Faculty Of Arts And Sciences, Kimya, 2006 - 2007

Research Assistant, City University of New York, Department Of Physiology And Biophysics, Department Of Physiology And Biophysics, 1996 - 1998

Research Assistant, Bogazici University, Faculty Of Arts And Sciences, Kimya, 1992 - 1997

Academic and Administrative Experience

Canakkale Onsekiz Mart University, Lapseki Myo, 2012 - 2015

Canakkale Onsekiz Mart University, Lapseki Myo, 2011 - 2012

Courses

Some Instrumental Methods and Applications II, Postgraduate, 2023 - 2024
seminar, Postgraduate, 2023 - 2024

Analytical Chemistry, Associate Degree, 2023 - 2024

Laboratory Instrumental Devices, Associate Degree, 2023 - 2024

Organic Chemistry, Associate Degree, 2023 - 2024

Instrumental Analysis Techniques, Associate Degree, 2023 - 2024

Occupational Health and Safety I, Undergraduate, 2022 - 2023

Occupational Health and Safety II, Undergraduate, 2021 - 2022

Laboratory Instrumental Devices, Associate Degree, 2021 - 2022

Organic Chemistry, Associate Degree, 2021 - 2022

Instrumental Analysis , Associate Degree, 2020 - 2021

General Chemistry, Associate Degree, 2021 - 2022

Polymer Technology and Analysis, Associate Degree, 2020 - 2021

Polymer Technology and Analysis, Associate Degree, 2020 - 2021

Biyomalzemelerin ve Biyopolimerlerin Moleküler Yapısı ve Kullanım Alanları, Undergraduate, 2020 - 2021

Organic Chemistry, Associate Degree, 2021 - 2022

General Chemistry, Associate Degree, 2020 - 2021

ileri analiz teknikleri, Associate Degree, 2015 - 2016

Analitik Kimya, Associate Degree, 2015 - 2016, 2014 - 2015, 2013 - 2014

Genel Kimya, Associate Degree, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2010 - 2011

Çevre Kimyası, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013

Analitik Kimya II, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Genel Kimya, Associate Degree, 2015 - 2016, 2012 - 2013

Genel Kimya, Associate Degree, 2015 - 2016, 2012 - 2013, 2010 - 2011

Organik Kimya, Associate Degree, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Biyokimya, Associate Degree, 2014 - 2015, 2013 - 2014, 2012 - 2013

Genel Kimya, Associate Degree, 2015 - 2016, 2012 - 2013

Genel Kimya, Associate Degree, 2012 - 2013, 2010 - 2011, 2009 - 2010

Kimya, Associate Degree, 2011 - 2012

Biyokimya, Associate Degree, 2010 - 2011

Kimya, Associate Degree, 2011 - 2012

Analitik Kimya, Undergraduate, 2006 - 2007

Jury Memberships

Doctorate, Tez Savunma Jürisi, Çanakkale Onsekiz Mart Üniversitesi, August, 2019

Post Graduate, Tez Savunma Jürisi, ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, June, 2016

Post Graduate, Tez Savunma Jürisi, ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, June, 2014

Post Graduate, POLİ (SİKLOHEKZİL METAKRİLAT) VE POLİ(BENZİL METAKRİLAT)'IN İNVERS GAZ KROMATOĞRAFİSİ İLE TERMODİNAMİK ÖZELLİKLERİNİN BELİRLENMESİ, ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, January, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Polyurethanes derived from triazole-based monomers and their application as fluorescent probe for Zn²⁺**
Kaya İ., Karacan Yeldir E., Kolcu F., Niğiz S.
EUROPEAN POLYMER JOURNAL, vol.220, pp.1-15, 2024 (SCI-Expanded)
- II. **Oligomerization of dibrominated aminophenol on the basis of the chemical and HRP-catalyzed oxidative processes: Characterization and photoluminescence properties**
KOLCU F., KAYA İ.
DYES AND PIGMENTS, vol.227, 2024 (SCI-Expanded)
- III. **Comparative Study of Bis-Schiff Case Containing Conjugated Oligomers Based on Phosphate and Silane Moieties: Investigation of Photophysical and Thermal Properties**
Kolcu F., Çulhaoğlu S., Kaya İ.
ACS OMEGA, vol.9, no.23, pp.24789-24806, 2024 (SCI-Expanded)
- IV. **Synthesis of pyrene and pyrrole-appended fluorescent turn-off sensor toward Cr(VI) detection: Chemical oxidative and electrochemical polymerization of carboxamide**
Kaya İ., Karacan Yeldir E., Kolcu F., Erdener D.
Journal of Photochemistry and Photobiology A: Chemistry, vol.449, 2024 (SCI-Expanded)
- V. **Investigation of electrochemical, optical, and thermal properties via oligomerization of aminophenol monomer containing halogen and nitro groups using two distinct oxidants**
Yeldir E. K., KOLCU F., KAYA İ.
Reactive and Functional Polymers, vol.193, 2023 (SCI-Expanded)
- VI. **Synthesis and investigation of bis(phenyl)fluorene and carbazole appended dipodal Schiff base for fluorescence sensing towards Sn(II) ion and its regioselective polymerization**
KOLCU F., Çulhaoğlu S., KAYA İ.
Journal of Photochemistry and Photobiology A: Chemistry, vol.441, 2023 (SCI-Expanded)
- VII. **Influence of the enzymatic and the chemical oxidative polymerization of trifluoromethyl-substituted aromatic diamine on thermal and photophysical properties**
SÖYÜT H., KOLCU F., KAYA İ., Yaşar A. Ö.
Polymers for Advanced Technologies, vol.34, no.4, pp.1293-1306, 2023 (SCI-Expanded)
- VIII. **Carbazole-based Schiff base: A sensitive fluorescent ?turn-on? chemosensor for recognition of Al(III) ions in aqueous-alcohol media**
KOLCU F., KAYA İ.
ARABIAN JOURNAL OF CHEMISTRY, vol.15, no.7, 2022 (SCI-Expanded)
- IX. **Facile one-pot synthesis of water-soluble conjugated polymers derived from 7-amino-4-hydroxy-2-naphthalenesulfonic acid: Synthesis and photoluminescence properties**
KAYA İ., Akyuz B., KOLCU F., Soyut H.
REACTIVE & FUNCTIONAL POLYMERS, vol.175, 2022 (SCI-Expanded)
- X. **Investigation of horseradish peroxidase and hydrogen peroxide mediated synthesis of amino-functional oligomers: Characterization and fluorescence study**
KOLCU F., KAYA İ.
SYNTHETIC METALS, vol.280, 2021 (SCI-Expanded)

- XI. **Synthesis of phosphate and silane-based conjugated polymers derived from bis-azomethine: Photophysical and thermal characterization**
Culhaoglu S., KOLCU F., KAYA İ.
REACTIVE & FUNCTIONAL POLYMERS, vol.166, 2021 (SCI-Expanded)
- XII. **Synthesis and characterization of a highly selective turn-on fluorescent chemosensor for Sn²⁺ derived from diimine Schiff base**
Kolcu F., Erdener D., Kaya İ.
SYNTHETIC METALS, vol.272, 2021 (SCI-Expanded)
- XIII. **A Schiff base based on triphenylamine and thiophene moieties as a fluorescent sensor for Cr (III) ions: Synthesis, characterization and fluorescent applications**
KOLCU F., ERDENER ÇIRALI D., KAYA İ.
INORGANICA CHIMICA ACTA, vol.509, 2020 (SCI-Expanded)
- XIV. **A study of the chemical and the enzyme-catalyzed oxidative polymerization of aromatic diamine bearing chlor substituents, pursuant to structural, thermal and photophysical properties**
KOLCU F., KAYA İ.
EUROPEAN POLYMER JOURNAL, vol.133, 2020 (SCI-Expanded)
- XV. **Synthesis, optical and electrochemical abilities of highly soluble poly(epoxy-ether)s bearing perylene bisimide units and their enhanced thermal properties by curing process**
Kolcu F., Culhaoglu S., Kaya İ.
PROGRESS IN ORGANIC COATINGS, vol.137, 2019 (SCI-Expanded)
- XVI. **"Poly(azomethine)s anchored by cresol and pyrrole units: synthesis, characterization and spectroscopy studies**
KAYA İ., KOLCU F., Tasvir Arıcı G., Çolekoglu E.
MACROMOLECULAR RESEARCH, vol.27, pp.164-174, 2019 (SCI-Expanded)
- XVII. **Characterization and spectroscopic study of enzymatic oligomerization of phenazopyridine hydrochloride**
KOLCU F.
JOURNAL OF MOLECULAR STRUCTURE, vol.1188, pp.76-85, 2019 (SCI-Expanded)
- XVIII. **3-Aminopropyltriethoxysilane-mediated (phenoxy-imine) polymers: synthesis and characterization**
Kaya İ., Boz M. E., Kolcu F.
POLYMER BULLETIN, vol.76, no.4, pp.1651-1674, 2019 (SCI-Expanded)
- XIX. **Poly(azomethine)s Anchored by Cresol and Pyrrole Units: Synthesis, Characterization and Spectroscopy Studies**
KAYA İ., KOLCU F., Arici G. T., Colekoglu E.
MACROMOLECULAR RESEARCH, vol.27, no.2, pp.164-174, 2019 (SCI-Expanded)
- XX. **Synthesis and characterization of fluorescent polyphenols anchored Schiff bases via oxidative polycondensation**
KAYA İ., KOLCU F., Satilmis S., Yazicioglu Z.
MATERIALS SCIENCE-POLAND, vol.36, no.4, pp.584-596, 2018 (SCI-Expanded)
- XXI. **Poly(azomethine-epoxy-ether) containing phenyl and etoxy moieties: synthesis, characterization and fluorescence property**
KOLCU F., KAYA İ.
CHEMICAL PAPERS, vol.72, no.11, pp.2821-2832, 2018 (SCI-Expanded)
- XXII. **Polymerization of Chrysoidine with chemical and enzymatic oxidative preference: Synthesis, characterization, and spectroscopic study**
KAYA İ., KOLCU F.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.29, no.9, pp.2515-2528, 2018 (SCI-Expanded)
- XXIII. **Conducting polymer composites based on LDPE doped with poly(aminonaphthol sulfonic acid)**
DOĞAN F., ŞİRİN K., KOLCU F., KAYA İ.
JOURNAL OF ELECTROSTATICS, vol.94, pp.85-93, 2018 (SCI-Expanded)
- XXIV. **Synthesis and characterization of semi-conductive, thermally stable imine polymers containing**

methyl silane group

Kaya İ., Citakoglu N., Kolcu F.

POLYMER BULLETIN, vol.74, no.4, pp.1343-1369, 2017 (SCI-Expanded)

- XXV. **Synthesis, characterization and photovoltaic studies of oligo(acriflavine) via chemical oxidative polymerization**
KOLCU F., KAYA İ.
RSC ADVANCES, vol.7, no.15, pp.8973-8984, 2017 (SCI-Expanded)
- XXVI. **Synthesis, Characterization, Electrical Conductivity and Fluorescence Properties of Polyimine Bearing Phenylacetylene Units**
ŞENOL BAHÇECİ D., KOLCU F., KAYA İ.
JOURNAL OF FLUORESCENCE, vol.26, no.5, pp.1579-1590, 2016 (SCI-Expanded)
- XXVII. **Synthesis and characterization of conjugated polyphenols derived from azomethine formation containing terephthaldehyde via oxidative polycondensation**
KOLCU F., KAYA İ.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.53, no.7, pp.438-451, 2016 (SCI-Expanded)
- XXVIII. **Synthesis and characterization of imine polymers of aromatic aldehydes with 4-amino-2-methylquinoline via oxidative polycondensation**
KAYA İ., KOLCU F., DEMİRAL G., ERGUL H., KILIC E.
DESIGNED MONOMERS AND POLYMERS, vol.18, no.1, pp.89-104, 2015 (SCI-Expanded)
- XXIX. **Synthesis, characterization, optical, and electrochemical properties of thermal stable novel poly(azomethine-ether)s**
KAYA İ., Avci A., KOLCU F., Culhaoglu S.
DESIGNED MONOMERS AND POLYMERS, vol.17, no.5, pp.481-490, 2014 (SCI-Expanded)
- XXX. **A Quantum Mechanical Approach to the Kinetics of the Hydrogen Abstraction Reaction $H_2O_2 + \cdot OH \rightarrow H_2O + H_2O$**
ATADİNÇ KOLCU F., GÜNAYDIN H., ÖZEN A. S., AVİYENTE V.
Int. J. Chem. Kinet, vol.37, pp.502-514, 2005 (SCI-Expanded)
- XXXI. **Theoretical study of hydrogen abstraction from dimethyl ether and methyl tert-butyl ether by hydroxyl radical**
ATADİNÇ KOLCU F., SELÇUKİ C., SARI L., AVİYENTE V.
Phys. Chem. Chem. Phys, vol.4, pp.1797-1806, 2002 (SCI-Expanded)
- XXXII. **Transport through microemulsion-based organo-gels**
Atay-Guneyman N. Z., Atadinc F., Kozluca Y.
Journal of Colloid And Interface Science, vol.169, no.1, pp.246-248, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **An investigation of the enzymatic oligomerization of nitro-substituted phenylene diamine: Thermal and fluorescence properties**
Kolcu F.
Journal New Results in Science, vol.13, no.2, pp.153-164, 2024 (Peer-Reviewed Journal)
- II. **Synthesis, Characterization and Optimum Reaction Conditions of Oligo-N-Salicylidenephenylhydrazone via Oxidative Polymerization**
KOLCU F.
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, vol.5, no.2, pp.919-930, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis And Characterization Of Poly(Diaminopyridine) Containing Bromine By Enzyme-Catalyzed Polymerization**
Karacan Yeldir E., Kolcu F., Kaya İ.
8. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 14 - 15 October 2023, pp.156-168
- II. **COMPARISON OF THE CHEMICAL AND ENZYMATIC OXIDATIVE POLYMERIZATION OF 4-PHENOXYANILINE: CHARACTERIZATION, SPECTROSCOPIC AND THERMAL PROPERTIES**
KOLCU F.
6th INTERNATIONAL CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL MEDICAL SCIENCES, 8 - 10 March 2019
- III. **SYNTHESIS OF POLY(AZOMETHINE)S DERIVED FROM DIALDEHYDE AND PHENAZOPYRIDINE HYDROCHLORIDE: CHARACTERIZATION, THERMAL AND SPECTROSCOPIC STUDIES**
KOLCU F.
12th Chemical Physics Congress, Turkey, 12 - 13 October 2018
- IV. **Synthesis and characterization of fluorescent polyphenols containing azomethine linkages via oxidative polycondensation**
KAYA İ., KOLCU F., SATILMIŞ S.
2nd International Conference on Organic Electronic Material Technologies (OEMT2016), 17 - 19 May 2016, pp.258
- V. **Synthesis and characterization of polymers of aromatic aldehydes with 4 aminoquinoline via oxidative polycondensation**
KOLCU F., KAYA İ.
5th EuCheMS Chemistry Congress, İstanbul, Turkey, 31 August - 04 September 2014
- VI. **Synthesis and characterization of Schiff base polymers of terephthaldehyde with aromatic aminophenols via oxidative polycondensation**
KOLCU F., KAYA İ.
44th IUPAC World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013
- VII. **Hidrojen Peroksitten OH Radikali ile Hidrojen Koparılma Tepkimesinin Kinetik açıdan İncelenmesi**
ATADİNÇ F., AVİYENTE V.
XV. Ulusal Kimya Kongresi, İstanbul, Turkey, 4 - 07 September 2001
- VIII. **Mechanism and kinetics of the reactions of OH radical with dimethyl ether and methyl T butyl ether**
SELÇUKİ C., ATADİNÇ F., AVİYENTE V.
Abstracts of Papers of The American Chemical Society, San Diego, United States Of America, 1 - 05 April 2001, vol.221, pp.472-473
- IX. **Theoretical Studies of Hydrogen Abstraction from Hydrogen Peroxide Methanol and Ethanol by OH Radical**
KOLCU F., AVİYENTE V., Osman R.
Third European Conference on Computational Chemistry, Budapest, Hungary, 4 - 08 September 2000
- X. **Organo Jellerde Dağılım**
ATADİNÇ F., Atay Güneyman N. Z.
IX. Kimya ve Kimya Mühendisliği Sempozyumu, Trabzon, Turkey, 20 - 24 September 1993
- XI. **Diffusion in Organo Gels**
GÜNEYMAN N. Z., ATADİNÇ F.
Pure and Applied Aspects of Surfactant Behaviour, Strasbourg, France, 14 - 16 April 1993

Supported Projects

Kolcu F., TUBITAK Project, Kitosana Seftriakson Ve Pinosembrin Yüklenecek Geliştirilen Nanopartiküllerin In Vitro Biyoaktivite Etkinliğinin Değerlendirilmesi, 2024 - 2025

Karacan Yeldir E., Kolcu F., Kaya İ., Project Supported by Higher Education Institutions, Antrasen ve floren bazı karboksiamit bileşiklerinin sentezi, polimerizasyonu ve sensör özelliklerinin incelenmesi, 2024 - 2025

Kolcu F., TUBITAK Project, Enzymatic and Oxidative Biosynthesis of Optical and Electronic Active Poly(4-chloro-o-

phenylenediamine) Particles and Preparation of PP-Polymer Blend Mixtures, 2024 - 2025

Kolcu F., Kaya İ., Karacan Yeldir E., TUBITAK Project, Poli(kuersetin)'in Enzimatik ve Oksidatif Yöntemle Biyosentezi: PE için Oksidasyon Önleyici Ajan Olarak Kullanımının Araştırılması , 2024 - 2025

Kaya İ., Kolcu F., Çulhaoğlu S., Project Supported by Higher Education Institutions, Fenil floren birimi içeren mono ve di sübstitüe yapılı fenoksi-imin polimerlerinin sentezi ve karakterizasyonu, 2024 - 2025

Kolcu F., Kaya İ., Project Supported by Higher Education Institutions, Antrasen birimi içeren aromatik monoamin bileşiğinin enzimatik ve oksidatif polimerizasyonu, 2024 - 2025

KOLCU F., KAYA İ., Project Supported by Higher Education Institutions, Amin ve halojen birimleri içeren fenol bileşiğinin enzimatik ve oksidatif polimerizasyonu, 2022 - 2023

Kaya İ., Kolcu F., Çulhaoğlu S., Project Supported by Higher Education Institutions, Fosfor ve silan grupları içeren oksijen köprülü azometin polimerlerinin sentezi karakterizasyonu ve floresans özellikleri, 2022 - 2023

KAYA İ., ÇULHAOĞLU S., KOLCU F., Project Supported by Higher Education Institutions, Floren ve karbazol birimi içeren azometin polimerlerinin sentezi ve karakterizasyonu, 2021 - 2022

KARACAN YELDİR E., KAYA İ., KOLCU F., Project Supported by Higher Education Institutions, Halojen ve nitro grubu içeren aminofenol monomerinin oksidatif ve enzimatik polimerizasyonu, 2020 - 2021

KOLCU F., KAYA İ., Project Supported by Higher Education Institutions, Halojen atomu içeren aromatik diamin bileşiğinin enzimatik ve oksidatif polimerizasyonu, 2019 - 2020

KOLCU F., ÇULHAOĞLU S., KAYA İ., Project Supported by Higher Education Institutions, Perilen birimi içeren epoksi bileşiklerinin sentezi ve karakterizasyonu, 2018 - 2019

KAYA İ., KOLCU F., Project Supported by Higher Education Institutions, Azo birimi içeren aromatik diamin bileşiğinin enzimatik polimerizasyonu ve karakterizasyonu, 2017 - 2018

KOLCU F., KAYA İ., Project Supported by Higher Education Institutions, Fenil ve etoksi birimleri içeren imin polimerinin sentezi ve karakterizasyonu, 2017 - 2017

KOLCU F., Project Supported by Higher Education Institutions, Akriflavin Monomerinin Oksidatif Polimerizasyonu ve Karakterizasyonu, 2016 - 2017

KAYA İ., KOLCU F., Project Supported by Higher Education Institutions, Eterik Bağ ve metil grubu içeren imin polimerlerinin sentezi ve karakterizasyonu, 2013 - 2014

KOLCU F., Project Supported by Higher Education Institutions, Azometin bağı içeren polifenollerin sentezi ve iletkenlik özellikleri, 2013 - 2014

Metrics

Publication: 45

Citation (WoS): 324

Citation (Scopus): 309

H-Index (WoS): 12

H-Index (Scopus): 12

Scholarships

Research assistant scholarship, University, 1997 - 1999

Non Academic Experience

The Mount Sinai School of Medicine, City University of New York