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Learning Knowledge

Doctorate 2007 - 2012	Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Chemistry, Turkey
Postgraduate 1999 - 2002	Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Chemistry, Turkey
Undergraduate 1995 - 1999	Canakkale Onsekiz Mart University, Fen- Edebiyat, Kimya, Turkey

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Değişik Boyutta ve Yapıda 4-Vinilpiridin (4-VP) Esaslı Polimerik Materyaller ve Bunların Uygulama Alanlarının Araştırılması, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Kimya, 2012
Postgraduate, Yapısında Amino Grubu Bulunduran Organik Bileşiklerden Radikalik Metotla Amino Grubunun Çıkarılması Reaksiyonlarının İncelenmesi , Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Kimya, 2002

Academic Titles / Tasks

Professor 2022 - Continues	Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik
Associate Professor 2017 - 2022	Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya
Associate Professor 2017 - 2017	Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri
Assistant Professor 2012 - 2017	Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri
Lecturer PhD 2012 - 2012	Canakkale Onsekiz Mart University, Çan Meslek Yüksekokulu, Çan Meslek Yüksekokulu
Lecturer 2004 - 2012	Canakkale Onsekiz Mart University, Çan Meslek Yüksekokulu, Çan Meslek Yüksekokulu

Supported Projects

1. ÖZAY Ö., Şeref E., Project Supported by Higher Education Institutions, İnorganik Esaslı Modifiye Edilebilir Mikro ve Nano Yapıların Sentezi ve Biyomedikal Uygulama Alanlarının Araştırılması, 2024 - Continues
2. GÜLER A., ÖZAY Ö., Project Supported by Higher Education Institutions, ZnO ve TiO2 İçerikli Kristal Sırların Özelliklerine Metal Oksitler ve Pigmentlerin Etkileri Kapsamında Floresans Özellik Araştırması, 2021 - Continues
3. Ilgın P., Özay H., Özay Ö., Project Supported by Higher Education Institutions, Simple and rapid production of pectin-supported-Ru nanocomposite as an effective and reusable catalyst for hydrogen production, 2023 - 2024
4. ÖZAY H., Şeref E., ÖZAY Ö., ILGIN P., Project Supported by Higher Education Institutions, Vinil Fosfonik Asit İçeren Hidrojellerin Sentezi ve Farklı Hastalıkların Tedavisi için İlaç Etken Madde Taşıma Özelliklerinin İncelenmesi, 2023 - 2024
5. ÖZAY Ö., Özsoy F., Project Supported by Higher Education Institutions, MODİFİYE EDİLEBİLİR FOSFAZEN MİKROKÜRELERİN SENTEZİ VE KANSER İLACI SALIM ÖZELLİKLERİNİN İNCELENMESİ, 2022 - 2023
6. ÖZAY Ö., ÖZAY H., ILGIN P., Özsoy F., ÖNDER A., Project Supported by Higher Education Institutions, Kükürt İçeren Fosfazen Nanokürelerinin Denetimli İlaç Salım Sistemi Olarak Kullanımı, 2022 - 2023
7. ÖZAY Ö., ILKINER M., Project Supported by Higher Education Institutions, Hidroksietil Nişasta İçeren Katyonik Hidrojellerin Hazırlanması ve Biyomedikal Uygulama Alanlarının Araştırılması, 2021 - 2023
8. DEMİRBAKAN B., Tarımeri Köseer N., SEZGİNTÜRK M. K., ÖZAY H., ÖZAY Ö., TARIMERİ N., Project Supported by Higher Education Institutions, Gıdalardaki Aflatoksin Varlığının Tayinine Yönelik Kullanat Biyoalgılama Sistemlerinin Geliştirilmesi Ve Uygulamaları, 2020 - 2023
9. ILGIN P., Önder A., ÖZAY H., ÖZAY Ö., KIVANÇ M. R., Project Supported by Higher Education Institutions, Modifiye Aktif Carbon Bazlı Nanokompozit Hidrojeller, 2021 - 2022
10. ÖZCAN B., SEZGİNTÜRK M. K., ÖZAY H., ÖZAY Ö., Project Supported by Higher Education Institutions, Önemli bir kanser biyobelirteci olan alfa-fetoprotein tayini için hassas ve ekonomik biyoalgılama sistemlerinin geliştirilmesi, 2020 - 2022
11. ÖZAY Ö., Drumuş S., Project Supported by Higher Education Institutions, Birden fazla ilaç için taşıyıcı sistem olarak yeni tür iyonik hidrojellerin sentezi ve ilaç salım özelliklerinin incelenmesi, 2020 - 2022

12. ÖZAY Ö., ÖZAY H., ILGIN P., Yılmaz B., Durmuş S., Önder A., Project Supported by Higher Education Institutions, Glisidil Metakrilat Türevli Yeni Tür Fonksiyonel Monomer ve Çapraz Bağlayıcıların Sentezi ve Hidrojel Üretiminde Kullanılması, 2020 - 2021
13. ILGIN P., YILMAZ B., durmuş s., KIVANÇ M. R., ÖZAY Ö., ÖZAY H., Project Supported by Higher Education Institutions, Altın Nanoparçacık Gömülü Hidrojellerin Sentezi Karakterizasyonu ve Yara Örtüsü Uygulaması İçin in Vitro Salım ve AntiBakteriyel Özelliklerinin Geliştirilmesi, 2020 - 2021
14. ÖZAY Ö., Yılmaz B., Project Supported by Higher Education Institutions, Kontrollü İlaç Salım Süresinin Uzatılması İçin Çeşitli Modifiye Silika Nanopartiküller, 2019 - 2021
15. SUNGUR A., KAVDIR Y., SOYLAK M., ÖZAY Ö., İLAY R., Project Supported by Higher Education Institutions, Yeşil ceviz kabuğundan elde edilen biyokömür ile sulu çözeltiden ağır metallerin giderimi, 2018 - 2020
16. ÖZAY H., ÖZAY Ö., SEZGİNTÜRK M. K., ILGIN P., Project Supported by Higher Education Institutions, Anyonik Bazlı Hidrojeller ile Kapsüllenmiş Paladyum (Pd) ve Rutenyum (Ru) Nanopartiküllerinin Etilendiamin Bisborenin Hidrolizinde Kullanımı, 2018 - 2019
17. ÖZAY Ö., GÜNGÖR Z., DEMİRBAKAN B., ÖZCAN B., SEZGİNTÜRK M. K., ÖZAY H., Project Supported by Higher Education Institutions, Hidrojel Ağ Yapılarında Enzim Aracılı Metalik Nanopartiküllerin Sentezi ve Katalitik Uygulamaları, 2018 - 2019
18. ILGIN P., ÖZAY H., ÖZAY Ö., Project Supported by Higher Education Institutions, Çevresel Uyarılara Duyarlı Aljinat Esaslı Jellerin Sentezi Şişme Karakterizasyonu ve Kontrollü İlaç Salım Sistemleri Uygulamaları, 2018 - 2019
19. ÖZAY Ö., ENGİN M., Project Supported by Higher Education Institutions, Etilendiamin bisborenden hidroliz ile hidrojen gazı üretimi, 2017 - 2018
20. ÖZAY Ö., Önder A., Project Supported by Higher Education Institutions, Hidrojen Üretimi İçin Çeşitli Metal Kompozitlerin Geliştirilmesi, 2016 - 2016
21. BİLİCİ A., ÖZAY Ö., TUBITAK Project, Ayarlanabilir Ve Çoklu Renk Emisyonu Verebilen Kinolin Polimerlerin Sentezleri Ve Karakterizasyonlari, 2013 - 2015
22. Özay H., Özay Ö., Yıldırım M., TUBITAK Project, Fosfazen Kimyasına Farklı Bir Bakış: Fosfazen Bazlı Yeni Tür İyon Sensörlerinin Sentezi Ve Uygulamaları, 2012 - 2015
23. ÖZAY Ö., ÖZAY H., Project Supported by Higher Education Institutions, Metal İyonları İçin Kolorimetrik Sensör Özelliği Taşıyan Yeni Tür Hidrojellerin Sentezi ve Çevresel Uygulama Alanlarının Araştırılması, 2013 - 2014
24. ŞAHİNER N., ÖZAY Ö., Project Supported by Higher Education Institutions, DEĞİŞİK BOYUTTA VE YAPIDA 4-VİNİLPİRİDİN (4-VP) ESASLI POLİMERİK MATERYALLER VE BUNLARIN UYGULAMA ALANLARININ ARAŞTIRILMASI, 2010 - 2012
25. ŞAHİNER N., ÖZAY Ö., Project Supported by Higher Education Institutions, HİDROJELLER İLE KROM TÜRLERİNİN SULU ORTAMDAN SEÇİMLİ UZAKLAŞTIRILMASI VE TÜRLENDİRİLMESİ, 2010 - 2011
26. EKİCİ S., ŞAHİNER N., ÖZAY Ö., TUBITAK Project, Biyouyumlu ve biyobozunabilir özellikteki mikron ve nano boyutlu hiyalunorik asit hidrojel partiküllerinin sentezi, karakterizasyonu ve ilaç salımı alanlarındaki uygulamalarının araştırılması, 2008 - 2010
27. ŞAHİNER N., ÖZAY Ö., TUBITAK Project, Metalik Nanopartiküllerin Polimerik Hidrojel Ağ Yapılarında Sentezlenmesi Ve Bunların Katalizör Olarak Kullanılması, 2008 - 2009
28. YILDIZ M., TOPATEŞ G., ÜSTÜNDAĞ C. B., ÖZAY Ö., Project Supported by Higher Education Institutions, Çan Termik Santrali Üretim Atığı Uçucu Küllerinin Seramik Üretiminde Kullanılması, 2004 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

1. **A new candidate for wound dressing materials: s-IPN hydrogel-based highly elastic and pH-sensitive drug delivery system containing pectin and vinyl phosphonic acid**
   Şeref E., Ilgin P., Ozay Ö., Ozay H.
   EUROPEAN POLYMER JOURNAL, vol.207, pp.1-11, 2024 (SCI-Expanded)
2. **Utilization of superabsorbent xanthan films cross-linked with Ru0 nanoparticles for hydrogen generation from ammonia borane**
   Özay H., Tercan Yavaşoğlu M., Özay Ö.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.61, pp.367-376, 2024 (SCI-Expanded)

3. **Phosphazene-based nanostructures modified with gold nanoparticles as drug and gene carrier materials with antibacterial and antifungal properties**
   Ozsoy F., Özay Ö.
   International Journal of Polymeric Materials and Polymeric Biomaterials, vol.73, no.5, pp.383-394, 2024 (SCI-Expanded)
4. **Assessment of release and anticancer effect of innovative pH-responsive and antioxidant-biodegradable hydrogel by using Parthenocissus quinquefolia L. extract as a crosslinker**
   Cömert Önder F., Kalın S., Önder A., Özay H., Özay Ö.
   JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.90, no.105113, pp.1-12, 2023 (SCI-Expanded)
5. **Rapid preparation of Ru(0) nanoparticles stabilized with water-soluble biopolymer for hydrogen production from ammonia borane: Development of battery-like hydrolysis media**
   Seref E., Tercan M., Özay H., Ilgın P., Özay Ö.
   International Journal of Hydrogen Energy, vol.48, no.78, pp.30420-30434, 2023 (SCI-Expanded)
6. **Enhanced drug carrier capacity after post modification process for amino acid substitute phosphazene based microspheres with anticancer activity**
   Özsoy F., Özay Ö.
   JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.86, pp.1-10, 2023 (SCI-Expanded)
7. **Self-assembled silibinin-containing phosphazene/cystamine hybrid nanospheres as biodagradable dual-drug carriers with improved anticancer activity on a breast cancer cell line**
   Ozsoy F., Cömert Önder F., Ilgın P., Özay H., Önder A., Özay Ö.
   MATERIALS TODAY COMMUNICATIONS, vol.37, pp.1-11, 2023 (SCI-Expanded)
8. **Preparation of antioxidant-biodegradable poly(acrylic acid-co-2-hydroxyethyl methacrylate) hydrogel using rutin as a crosslinker: Drug release and anticancer activity**
   Cömert Önder F., Önder A., Ilgın P., Özay H., Özay Ö.
   REACTIVE AND FUNCTIONAL POLYMERS, vol.190, pp.1-11, 2023 (SCI-Expanded)
9. **Drug release properties of amphoteric HES/p(AETAC-co-IA) hydrogels decorated with gold nanoparticles**
   Ilkiner M., Özay Ö.
   Gold Bulletin, vol.56, no.2, pp.83-96, 2023 (SCI-Expanded)
10. **Adsorption of methylene blue from aqueous solution using poly(2-acrylamido-2-methyl-1-propanesulfonic acid-co-2-hydroxyethyl methacrylate) hydrogel crosslinked by activated carbon**
    Ilgın P., Onder A., Kıvanç M. R., Özay H., Özay Ö.
    Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.60, no.2, pp.135-149, 2023 (SCI-Expanded)
11. **Use of polyvinyl alcohol-based cationic hydrogels modified with gold nanoparticles as drug and gene delivery systems with enhanced antibacterial properties**
    Goregen İ. S., Özay Ö.
    Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.60, no.11, pp.778-789, 2023 (SCI-Expanded)
12. **Synthesis of p(HEMA-co-AETAC) nanocomposite hydrogel with vinyl-function montmorillonite nanoparticles and effective removal of methyl orange from aqueous solution**
    Onder A., Kıvanç M. R., Ilgın P., Özay H., Özay Ö.
    Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.60, no.2, pp.108-123, 2023 (SCI-Expanded)
13. **Highly effective palladium nanocatalyst supported in polymeric networks for the catalytic hydrogen generation from borane-morpholine complex**
    Özay H., Tercan M., Özay Ö., Ilgın P.
    ChemistrySelect, vol.7, no.45, 2022 (SCI-Expanded)
14. **Graphene nanoplate incorporated Gelatin/poly(2-(Acryloyloxy)ethyl trimethylammonium chloride) composites hydrogel for highly effective removal of Alizarin Red S from aqueous solution**

Özsoy F., Ozdilek B., Onder A., Ilgın P., Özay H., Özay Ö.
JOURNAL OF POLYMER RESEARCH, vol.29, pp.1-16, 2022 (SCI-Expanded)

15. **Preparation of composite hydrogels containing fly ash as low-cost adsorbent material and its use in dye adsorption**
Onder A., Ilgin P., Ozay H., Ozay Ö.
International Journal of Environmental Science and Technology, vol.19, no.8, pp.7031-7048, 2022 (SCI-Expanded)

16. **Adsorption of Malachite Green from Aqueous Solution Using Hydroxyethyl Starch Hydrogel Improved by Graphene Oxide**
Onder A., Kıvanç M. R., Durmus S., Ilgın P., Özay H., Özay Ö.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.30, no.7, pp.2928-2942, 2022 (SCI-Expanded)

17. **An innovative approach to use zeolite as crosslinker for synthesis of p(HEMA-co-NIPAM) hydrogel**
Durmus S., Yilmaz B., Onder A., Ilgın P., Özay H., Özay Ö.
MONATSHEFTE FUR CHEMIE, vol.153, no.4, pp.369-382, 2022 (SCI-Expanded)

18. **Synthesis and characterization of methacrylic acid based amphoteric hydrogels: use as a dual drug delivery system**
Durmus S., Özay Ö.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.59, no.10, pp.646-656, 2022 (SCI-Expanded)

19. **Synthesis of antibiotic-modified silica nanoparticles and their use as a controlled drug release system with antibacterial properties**
Yilmaz B., Özay Ö.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.197, no.9, pp.964-972, 2022 (SCI-Expanded)

20. **Removal of anionic dyes from aqueous media by using a novel high positively charged hydrogel with high capacity**
Kıvanç M. R., Özay Ö., Özay H., Ilgın P.
Journal of Dispersion Science and Technology, vol.43, no.7, pp.1000-1015, 2022 (SCI-Expanded)

21. **Synthesis, characterization, and in vitro drug release properties of AuNPs/p(AETAC-co-VI)/Q nanocomposite hydrogels**
Durmuş S., Yilmaz B., Kıvanç M. R., Onder A., Ilgın P., Özay H., Özay Ö.
Gold Bulletin, vol.54, no.2, pp.75-87, 2021 (SCI-Expanded)

22. **Novel hydrogels based on crosslinked chitosan with formyl-phosphazene using Schiff-base reaction**
ÖZAY H., ILGIN P., ÖZAY Ö.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.70, no.4, pp.246-255, 2021 (SCI-Expanded)

23. **The single-step synthesis of thiol-functionalized phosphazene-based polymeric microspheres as drug carrier**
Özay H., Ilgın P., Özyurt C., Özay Ö.
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.59, no.17, pp.1944-1955, 2020 (SCI-Expanded)

24. **Removal of dye from aqueous medium with pH-sensitive poly[(2-(acryloyloxy)ethyl]trimethylammonium chloride-co-1-vinyl-2-pyrrolidone] cationic hydrogel**
Onder A., Ilgın P., Özay H., Özay Ö.
Journal of Environmental Chemical Engineering, vol.8, no.5, 2020 (SCI-Expanded)

25. **Synthesis and characterization of pH responsive alginate based-hydrogels as oral drug delivery carrier**
Ilgın P., Özay H., Özay Ö.
Journal of Polymer Research, vol.27, 2020 (SCI-Expanded)

26. **Pd nanoreactors with excellent catalytic activity supported in p(SPA) hydrogel networks for hydrogen production from ethylenediamine bisborane**
ÖZAY H., ILGIN P., SEZGİNTÜRK M. K., ÖZAY Ö.
RENEWABLE ENERGY, vol.155, pp.500-512, 2020 (SCI-Expanded)

27. **A New Approach to Synthesis of Highly Dispersed Gold Nanoparticles via Glucose Oxidase-Immobilized Hydrogel and Usage in The Reduction of 4-Nitrophenol**
ÖZAY H., Tarimeri N., Güngör Z., DEMİRBAKAN B., ÖZCAN B., SEZGİNTÜRK M. K., ÖZAY Ö.
CHEMISTRYSELECT, vol.5, no.29, pp.9143-9152, 2020 (SCI-Expanded)
28. **Hydrogen production via copper nanocatalysts stabilized by cyclen derivative hydrogel networks from the hydrolysis of ammonia borane and ethylenediamine bisborane**
ÖZAY H., ILGIN P., ÖZAY Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.35, pp.17613-17624, 2020 (SCI-Expanded)
29. **Dual use of colorimetric sensor and selective copper removal from aqueous media with novel p(HEMA-co-TACYC) hydrogels: Cyclen derivative as both monomer and crosslinker**
Özay H., Gungor Z., Yilmaz B., Ilgın P., Özay Ö.
JOURNAL OF HAZARDOUS MATERIALS, vol.389, 2020 (SCI-Expanded)
30. **The efficient removal of anionic and cationic dyes from aqueous media using hydroxyethyl starch-based hydrogels**
Ilgın P., Özay H., Özay Ö.
CELLULOSE, vol.27, no.8, pp.4787-4802, 2020 (SCI-Expanded)
31. **The preparation of various shapes and porosities of hydroxyethyl starch/p(HEMA-co-NVP) IPN hydrogels as programmable carrier for drug delivery**
Özay Ö., Ilgın P., Özay H., Gungor Z., Yilmaz B., Kıvanç M. R.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.57, no.5, pp.379-387, 2020 (SCI-Expanded)
32. **Fly ash as catalyst support material in the hydrolysis of ethylenediamine bisborane for hydrogen production: The use of coal-fired power plant waste**
Onder A., ÖZAY Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.20, pp.11651-11661, 2020 (SCI-Expanded)
33. **Ruthenium nanoparticles supported in the network of HES-p(AMPS) IPN hydrogel as efficient catalyst for hydrogen production from the hydrolysis of ethylenediamine bisborane**
ÖZAY H., ILGIN P., SEZGİNTÜRK M. K., ÖZAY Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.16, pp.9892-9902, 2020 (SCI-Expanded)
34. **Selective adsorption of cationic dyes from colored noxious effluent using a novel N-tert-butylmaleamic acid based hydrogels**
Ilgın P., Özay H., Özay Ö.
REACTIVE & FUNCTIONAL POLYMERS, vol.142, pp.189-198, 2019 (SCI-Expanded)
35. **A new dual stimuli responsive hydrogel: Modeling approaches for the prediction of drug loading and release profile**
Ilgın P., Özay H., Özay Ö.
EUROPEAN POLYMER JOURNAL, vol.113, pp.244-253, 2019 (SCI-Expanded)
36. **Novel hexacentered phosphazene compound as selective Fe3+ ions sensor with high quantum yield: Synthesis and application**
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PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.194, no.3, pp.221-228, 2019 (SCI-Expanded)
37. **A novel hydrogel containing thioether group as selective support material for preparation of gold nanoparticles: Synthesis and catalytic applications**
ILGIN P., ÖZAY Ö., ÖZAY H.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.241, pp.415-423, 2019 (SCI-Expanded)
38. **The first catalytic hydrolysis of ethylenediamine bisborane with hydrogel-supported metallic nanoparticles**
Engın M., Özay Ö.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.32, pp.15083-15094, 2018 (SCI-Expanded)
39. **Synthesis and characterization of 2-hydroxyethylmethacrylate/2-(3-indol-yl)ethylmethacrylamide-**

based novel hydrogels as drug carrier with in vitro antibacterial properties
Ilgin P., Zorer O. S., Özay Ö., Boran G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.134, no.47, 2017 (SCI-Expanded)

40. **Novel stimuli-responsive hydrogels derived from morpholine: synthesis, characterization and absorption uptake of textile azo dye**
Ilgin P., Özay Ö.
IRANIAN POLYMER JOURNAL, vol.26, no.6, pp.391-404, 2017 (SCI-Expanded)

41. **The Preparation of Phosphazene Crosslinked Cyclen Microspheres as Host for Cu2+ Ions and Their Utilization as a Support Material for the Preparation of a Copper Nanocatalyst**
SAHIN O., KOC O. K., ÖZAY H., ÖZAY Ö.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.27, no.1, pp.122-130, 2017 (SCI-Expanded)

42. **Synthesis, structural characterization, and anion interactions of new triazole-linked urea derivative fully substituted cyclotriphosphazene compounds**
ÖZAY Ö., Yildirim M., ÖZAY H.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.192, no.3, pp.307-315, 2017 (SCI-Expanded)

43. **The preparation and applications of novel phosphazene crosslinked thermo and pH responsive hydrogels**
ÖZAY H., SAHIN O., KOC O. K., ÖZAY Ö.
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44. **SYNTHESIS, CHARACTERIZATION, AND NAKED-EYE SENSOR APPLICATION OF FULLY SUBSTITUTED UREA-BASED CYCLOTRIPHOSPHAZENE COMPOUND**
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45. **A neutral state colorless phosphazene/carbazole hybride dendron and its electrochromic device application**
Sezgin M., Özay Ö., Koyuncu S., Özay H., Baycan Koyuncu F.
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46. **Synthesis and characterization of novel urea and thiourea substitute cyclotriphosphazene compounds as naked-eye sensors for F- and CN- anions**
ÖZAY H., Yildirim M., ÖZAY Ö.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.4, pp.777-788, 2015 (SCI-Expanded)

47. **Novel hexapodal triazole linked to a cyclophosphazene core rhodamine-based chemosensor for selective determination of Hg2+ ions**
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JOURNAL OF FLUORESCENCE, vol.24, no.6, pp.1593-1601, 2014 (SCI-Expanded)

48. **Synthesis and characterization of drug microspheres containing phosphazene for biomedical applications**
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49. **Separation and Speciation of Iron Ions by Using Colorimetric Hydrogels**
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50. **Phosphazene Based Multicentered Naked-Eye Fluorescent Sensor with High Selectivity for Fe3+ Ions**
Kagit R., Yildirim M., ÖZAY Ö., Yesilot S., ÖZAY H.
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51. **Synthesis and Characterization of Novel pH-Responsive Poly(2-hydroxylethyl methacrylate-co-N-**

allylsuccinamic acid) Hydrogels for Drug Delivery
Ozay O.
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52. **Synthesis and Swelling Behavior of Novel pH Responsive Hydrogels for Environmental Applications**
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POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.53, no.2, pp.130-140, 2014 (SCI-Expanded)

53. **Rhodamine based reusable and colorimetric naked-eye hydrogel sensors for Fe3+ ion**
ÖZAY H., ÖZAY Ö.
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Academic and Administrative Experience

2023 - Continues	**Head of Department**	Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik
2022 - Continues	**Head of Department**	Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Biyomühendislik
2015 - 2019	**Rector's Advisor**	Canakkale Onsekiz Mart University, Rektörlük

2014 - 2019	**Board Member**	Canakkale Onsekiz Mart University, Enerji Kaynakları Ve Yönetimi A.B.D.
2016 - 2017	**Head of Department**	Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri Programları Bölümü
2015 - 2015	**Director of Vocational School**	Canakkale Onsekiz Mart University, Lapseki M.Y.O
2014 - 2015	**Board Member**	Canakkale Onsekiz Mart University, Lapseki Meslek Yüksekokulu

Courses

General Chemistry-2, Undergraduate, 2018 - 2019
General Chemistry-1, Undergraduate, 2018 - 2019

Advising Theses

Özay Ö., Hidroksietil nişasta içeren katyonik hidrojellerin hazırlanması ve biyomedikal uygulama alanlarının araştırılması, Postgraduate, M.ILKINER(Student), 2023
Özay Ö., RNA veya ilaç taşıyıcı olarak fosfazen nanokompozitlerinin sentezi ve karakterizasyonu, Postgraduate, F.ÖZSOY(Student), 2023
Özay Ö., BİRDEN FAZLA İLAÇ İÇİN TAŞIYICI SİSTEM OLARAK YENİ TÜR İYONİK HİDROJELLERİN SENTEZİ VE İLAÇ SALIM ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, S.DURMUŞ(Student), 2022
Özay Ö., Kontrollü ilaç salım süresinin uzatılması için çeşitli modifiye silika nanopartiküller, Postgraduate, B.YILMAZ(Student), 2021
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Özay Ö., Etilendiamin bisborenden hidroliz ile hidrojen gazı üretimi, Postgraduate, M.ENGİN(Student), 2018
Özay Ö., Hidrojen üretimi için çeşitli metal kompozitlerin geliştirilmesi, Postgraduate, A.ÖNDER(Student), 2016

Scientific Refereeing

Polymer for Advanced Technology, SCI Journal, January 2015

Scientific Research / Working Group Memberships

Kamu Üniversite Sanayi İşbirliği (KÜSİ) Çalışma Grubu, Sanayi ve Teknoloji Bakanlığı, Turkey, https://kusip.gov.tr/kusip/views/portal, 2016 - 2019

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Research Areas

Polymers and Their Applications, nanocomposites, Polymeric Adsorbents, Medical Applications of Polymers, Biotechnology, Chemical Technologies, Polymer Technology, Material science and engineering, Composites, Polymeric Materials, Biomaterials, Nanomaterials, Engineering and Technology