

Prof. HAVA ÖZAY

Personal Information

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International Researcher IDs

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Education

Doctorate, Canakkale Onsekiz Mart University, Fen-Bilimleri Enstitüsü, Kimya Anabilimdalı, Turkey 2005 - 2010

Postgraduate, Canakkale Onsekiz Mart University, Fen-Bilimleri Enstitüsü, Kimya Anabilimdalı, Turkey 2002 - 2005

Undergraduate, Canakkale Onsekiz Mart University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1998 - 2002

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, HALKALI FOSFAZENLERİN AMİNOLİZ VE ALKOLİZ REAKSİYONLARININ İNCELENMESİ, Canakkale Onsekiz Mart University, Fen-Bilimleri Enstitüsü, Kimya Anabilimdalı, 2010

Postgraduate, MALEİK ANHİDRİT, MALEİMİT VE 3,4,5,6-TETRAHİDROFTALİK ANHİDRİTİN MOLEKÜL İÇİ VE MOLEKÜLLER ARASI [2+2] FOTOKATILMA REAKSİYONLARININ İNCELENMESİ, Canakkale Onsekiz Mart University, Fen-Bilimleri Enstitüsü, Kimya Anabilimdalı, 2005

Research Areas

Chemical Engineering and Technology, Chemistry, Sensors, Functional Polymers, Polymeric Materials, Spectroscopy, Inorganic Chemistry, Inorganic Polymers, Catalysis, nanoclusters, Engineering and Technology

Academic Positions

Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2019 - Continues

Associate Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2013 - 2019

Research Assistant, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2002 - 2013

Academic and Administrative Experience

Dean, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2023 - Continues
Fakülte Yönetim Kurulu Üyesi, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2022 - 2023
Fakülte Kurulu Üyesi, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2022 - 2023
Vice Dean, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2022 - 2023
Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, 2016 - 2019
Canakkale Onsekiz Mart University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2015 - 2016

Courses

Postgraduate

Supramoleküler Kimya, Postgraduate, 2015 - 2016
Moleküler Simetri, Postgraduate, 2015 - 2016
Biyorganik Kimya, Postgraduate, 2014 - 2015
Koordinasyon Kimyası, Postgraduate, 2014 - 2015

Undergraduate

Genel Kimya II, Undergraduate, 2018 - 2019
Genel Kimya Laboratuvarı II, Undergraduate, 2018 - 2019
Genel Kimya I, Undergraduate, 2018 - 2019
Genel Kimya Laboratuvarı I, Undergraduate, 2018 - 2019
Anorganik Kimya Laboratuvarı, Undergraduate, 2014 - 2015
Kimya, Undergraduate, 2015 - 2016
Biyorganik Kimya, Undergraduate, 2015 - 2016, 2014 - 2015
Anorganik Kimya I, Undergraduate, 2015 - 2016
Anorganik Tepkime Mekanizmaları, Undergraduate, 2014 - 2015

Supervised Theses

Özay H., Synthesis of Cyclomatrix Poly[Cyclotriphosphazene-co-(4,4'-Methylenebis(2-methylcyclohexylamine))] Structures and Their Use as a Controlled Drug Release System, Postgraduate, E.Dilek(Student), 2023
Özay H., Yeni Fonksiyonel Monomerlerin Sentezi ve Çeşitli Cevap Yeteneğine Sahip Akıllı Malzemelerin Hazırlanmasında Kullanımları, Doctorate, Z.Güngör(Student), 2023
Özay H., Siklotrifosfazen Halkası İçeren Bazı Polimerik Yapıların Sentezi ve Uygulamaları, Doctorate, A.Önder(Student), 2021
Özay H., Polimer Destekli Gümüş Nanopartiküllerin Sentezi ve Boran Türevi Bileşiklerin Hidrolizinde Katalizör Olarak Kullanılması, Postgraduate, S.GÜN(Student), 2021
Özay H., Nitrofenil Grubu İçeren Bazı Üre ve Tiyoüre Bileşiklerinin Sentezi ve Anyon Algılama Özelliklerinin İncelenmesi, Postgraduate, H.İNEGÖL(Student), 2019
Özay H., Fonksiyonel Silika İçerikli Metal Kompozitlerin Sentezi ve Katalizör Uygulamalarının Araştırılması, Postgraduate, Ö.ŞAHİN(Student), 2017
Özay H., Yeni Moleküler İyon Algılayıcıların Sentezi ve Uygulamaları, Postgraduate, Ö.Kaan(Student), 2017

Jury Memberships

Post Graduate, Tez Savunma Jürisi, Çanakkale Onsekiz Mart Üniversitesi, June, 2014

Journal articles indexed in SCI, SSCI, and AHCI

1. Production of reusable and colorimetric cyanide sensor hydrogels for rapid detection of cyanide

ions in various aqueous media

ÖZAY Ö., ÖZAY H.

Reactive and Functional Polymers, vol.207, 2025 (SCI-Expanded)

- II. **A single-use electrochemical biosensor system for ultrasensitive detection of Aflatoxin B1 in rice, corn, milk, peanut, chili pepper samples**
DEMİRBAKAN B., Köseer N. T., Uzman E., ÖZAY Ö., ÖZAY H., SEZGİNTÜRK M. K.
Journal of Food Composition and Analysis, vol.136, 2024 (SCI-Expanded)
- III. **An unusual impedimetric biosensor design based on 3-MPDS for highly sensitive detection of AFB1 in food samples**
DEMİRBAKAN B., Köseer N. T., ÖZAY Ö., ÖZAY H., SEZGİNTÜRK M. K.
Food Bioscience, vol.62, 2024 (SCI-Expanded)
- IV. **Eco-Friendly Preparation of Pectin-Stabilized Ruthenium Catalyst for Hydrogen Generation from Sodium Borohydride Hydrolysis**
ILGIN P., ÖZAY H., ÖZAY Ö.
ChemistrySelect, vol.9, no.40, 2024 (SCI-Expanded)
- V. **Early detection of the ovarian cancer with a label-free and disposable ITO-PET based immunosensor platform**
ÖZCAN B., ÖZAY Ö., SEZGİNTÜRK M. K., ÖZAY H.
Microchemical Journal, vol.205, 2024 (SCI-Expanded)
- VI. **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, 2024 (SCI-Expanded)
- VII. **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)
- VIII. **Synthesis and characterization of cyclomatrix polyphosphazenes framework nanospheres-supported Cu0 nanocatalyst and its use in hydrogen production from ethylenediamine bisborane**
Onder A., Özay H.
International Journal of Hydrogen Energy, vol.52, pp.1220-1233, 2024 (SCI-Expanded)
- IX. **Investigation of Drug Release Behavior of Cyclomatrix Polyphosphazene Microparticles Decorated with Gold and Silver Nanoparticles**
Dilek E., Özay H.
CHEMISTRYSELECT, vol.9, no.1, pp.1-12, 2024 (SCI-Expanded)
- X. **Use of cationic p[2-(acryloyloxy)ethyl] trimethylammonium chloride in hydrogel synthesis and adsorption of methyl orange with jeffamine based crosslinker**
Güngör Z., Özay H.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.45, no.1, pp.91-106, 2024 (SCI-Expanded)
- XI. **Investigation of the catalytic activity of Ag(0) nanoparticles supported into anionic hydrogel networks for hydrogen production process**
Tercan M., ÖZAY H., ÖZAY Ö.
Inorganic and Nano-Metal Chemistry, 2024 (SCI-Expanded)
- XII. **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)
- XIII. **Rapid preparation of Ru(0) nanoparticles stabilized with water-soluble biopolymer for hydrogen production from ammonia borane: Development of battery-like hydrolysis media**
Şeref E., Tercan M., Özay H., Ilgin P., Özay Ö.
International Journal of Hydrogen Energy, vol.48, no.78, pp.30420-30434, 2023 (SCI-Expanded)

- XIV. **Self-assembled silibinin-containing phosphazene/cystamine hybrid nanospheres as biodegradable dual-drug carriers with improved anticancer activity on a breast cancer cell line**
Ozsoy F., Cömert Önder F., Ilgin P., Özay H., Önder A., Özay Ö.
MATERIALS TODAY COMMUNICATIONS, vol.37, pp.1-11, 2023 (SCI-Expanded)
- XV. **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., Ilgin P., Özay H., Özay Ö.
REACTIVE AND FUNCTIONAL POLYMERS, vol.190, pp.1-11, 2023 (SCI-Expanded)
- XVI. **Synthesis of p(HEMA-co-AETAC) nanocomposite hydrogel with vinyl-function montmorillonite nanoparticles and effective removal of methyl orange from aqueous solution**
Onder A., Kivanç M. R., Ilgin 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)
- XVII. **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**
Ilgin P., Onder A., Kivanç 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)
- XVIII. **Highly effective palladium nanocatalyst supported in polymeric networks for the catalytic hydrogen generation from borane-morpholine complex**
Özay H., Tercan M., Özay Ö., Ilgin P.
ChemistrySelect, vol.7, no.45, 2022 (SCI-Expanded)
- XIX. **Ultra-fast pH determination with a new colorimetric pH-sensing hydrogel for biomedical and environmental applications**
Gungor Z., Özay H.
REACTIVE & FUNCTIONAL POLYMERS, vol.180, 2022 (SCI-Expanded)
- XX. **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., Ilgin P., Özay H., Özay Ö.
JOURNAL OF POLYMER RESEARCH, vol.29, pp.1-16, 2022 (SCI-Expanded)
- XXI. **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)
- XXII. **Adsorption of Malachite Green from Aqueous Solution Using Hydroxyethyl Starch Hydrogel Improved by Graphene Oxide**
Onder A., Kivanç M. R., Durmus S., Ilgin P., Özay H., Özay Ö.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.30, no.7, pp.2928-2942, 2022 (SCI-Expanded)
- XXIII. **Synthesis of new type temperature and pH sensitive hydrogels using drug-based p-(methacryloyloxy)acetanilide monomer and their usage as controlled drug carrier material**
Gungor Z., Özay H.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.59, no.4, pp.295-306, 2022 (SCI-Expanded)
- XXIV. **An innovative approach to use zeolite as crosslinker for synthesis of p(HEMA-co-NIPAM) hydrogel**
Durmus S., Yilmaz B., Onder A., Ilgin P., Özay H., Özay Ö.
MONATSHEFTE FÜR CHEMIE, vol.153, no.4, pp.369-382, 2022 (SCI-Expanded)
- XXV. **Removal of anionic dyes from aqueous media by using a novel high positively charged hydrogel with high capacity**
Kivanç M. R., Özay Ö., Özay H., Ilgin P.
Journal of Dispersion Science and Technology, vol.43, no.7, pp.1000-1015, 2022 (SCI-Expanded)
- XXVI. **Synthesis, characterization, and in vitro drug release properties of AuNPs/p(AETAC-co-VI)/Q**

nanocomposite hydrogels

Durmuş S., Yılmaz B., Kivanç M. R., Onder A., Ilgin P., Özyay H., Özyay Ö.
Gold Bulletin, vol.54, no.2, pp.75-87, 2021 (SCI-Expanded)

- XXVII. **Highly efficient removal of methyl orange from aqueous media by amine functional cyclotriphosphazene submicrospheres as reusable column packing material**
Onder A., Özyay H.
Chemical Engineering and Processing - Process Intensification, vol.165, 2021 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **Synthesis and Characterization of Biodegradable and Antioxidant Phosphazene-Tannic Acid Nanospheres and Their Utilization as Drug Carrier Material**
Önder A., Özyay H.
Materials Science & Engineering C-Materials For Biological Applications, vol.120, pp.1-10, 2021 (SCI-Expanded)
- XXX. **The single-step synthesis of thiol-functionalized phosphazene-based polymeric microspheres as drug carrier**
Özyay H., Ilgin P., Özyurt C., Özyay Ö.
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, vol.59, no.17, pp.1944-1955, 2020 (SCI-Expanded)
- XXXI. **Removal of dye from aqueous medium with pH-sensitive poly[(2-(acryloyloxy)ethyl)trimethylammonium chloride-co-1-vinyl-2-pyrrolidone] cationic hydrogel**
Onder A., Ilgin P., Özyay H., Özyay Ö.
Journal of Environmental Chemical Engineering, vol.8, no.5, 2020 (SCI-Expanded)
- XXXII. **Synthesis and characterization of pH responsive alginate based-hydrogels as oral drug delivery carrier**
Ilgin P., Özyay H., Özyay Ö.
Journal of Polymer Research, vol.27, 2020 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Ag(0) nanocatalyst stabilized with networks of p(SPA-co-AMPS) for the hydrogen generation process from ethylenediamine bisborane hydrolysis**
Durgut S., Özyay H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.17649-17661, 2020 (SCI-Expanded)
- XXXVII. **The preparation of various shapes and porosities of hydroxyethyl starch/p(HEMA-co-NVP) IPN hydrogels as programmable carrier for drug delivery**
Özyay Ö., Ilgin P., Özyay H., Gungor Z., Yılmaz B., Kivanç M. R.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.57, no.5, pp.379-387, 2020 (SCI-Expanded)
- XXXVIII. **The efficient removal of anionic and cationic dyes from aqueous media using hydroxyethyl starch-based hydrogels**
Ilgin P., Özyay H., Özyay Ö.

CELLULOSE, vol.27, no.8, pp.4787-4802, 2020 (SCI-Expanded)

- XXXIX. **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., Ilgin P., Özay Ö.
JOURNAL OF HAZARDOUS MATERIALS, vol.389, 2020 (SCI-Expanded)
- XL. **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)
- XLI. **Selective adsorption of cationic dyes from colored noxious effluent using a novel N-tert-butylmaleamic acid based hydrogels**
Ilgin P., Özay H., Özay Ö.
REACTIVE & FUNCTIONAL POLYMERS, vol.142, pp.189-198, 2019 (SCI-Expanded)
- XLII. **A new dual stimuli responsive hydrogel: Modeling approaches for the prediction of drug loading and release profile**
Ilgin P., Özay H., Özay Ö.
EUROPEAN POLYMER JOURNAL, vol.113, pp.244-253, 2019 (SCI-Expanded)
- XLIII. **Novel hexacentered phosphazene compound as selective Fe³⁺ ions sensor with high quantum yield: Synthesis and application**
Özay Ö., Özay H.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.194, no.3, pp.221-228, 2019 (SCI-Expanded)
- XLIV. **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)
- XLV. **A simple azoquinoline based highly selective colorimetric sensor for CN⁻ anion in aqueous media**
Koc O. K., ÖZAY H.
CANADIAN JOURNAL OF CHEMISTRY, vol.95, no.7, pp.771-777, 2017 (SCI-Expanded)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **The preparation and applications of novel phosphazene crosslinked thermo and pH responsive hydrogels**
ÖZAY H., SAHIN O., KOC O. K., ÖZAY Ö.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.43, pp.28-35, 2016 (SCI-Expanded)
- XLIX. **SYNTHESIS, CHARACTERIZATION, AND NAKED-EYE SENSOR APPLICATION OF FULLY SUBSTITUTED UREA-BASED CYCLOTRIPHOSPHAZENE COMPOUND**
ÖZAY H., Yildirim M., ÖZAY Ö.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.190, no.11, pp.1865-1873, 2015 (SCI-Expanded)
- L. **A neutral state colorless phosphazene/carbazole hybride dendron and its electrochromic device application**
Sezgin M., Özay Ö., Koyuncu S., Özay H., Baycan Koyuncu F.

CHEMICAL ENGINEERING JOURNAL, vol.274, pp.282-289, 2015 (SCI-Expanded)

- LI. **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)
- LII. **Novel hexapodal triazole linked to a cyclophosphazene core rhodamine-based chemosensor for selective determination of Hg²⁺ ions**
ÖZAY H., Kagit R., Yildirim M., Yesilot S., ÖZAY Ö.
JOURNAL OF FLUORESCENCE, vol.24, no.6, pp.1593-1601, 2014 (SCI-Expanded)
- LIII. **Synthesis and characterization of drug microspheres containing phosphazene for biomedical applications**
Özay H., Özay Ö.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.450, pp.99-105, 2014 (SCI-Expanded)
- LIV. **Separation and Speciation of Iron Ions by Using Colorimetric Hydrogels**
ÖZAY Ö., ÖZAY H.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.51, no.4, pp.308-317, 2014 (SCI-Expanded)
- LV. **Phosphazene Based Multicentered Naked-Eye Fluorescent Sensor with High Selectivity for Fe³⁺ Ions**
Kagit R., Yildirim M., ÖZAY Ö., Yesilot S., ÖZAY H.
INORGANIC CHEMISTRY, vol.53, no.4, pp.2144-2151, 2014 (SCI-Expanded)
- LVI. **Rhodamine based reusable and colorimetric naked-eye hydrogel sensors for Fe³⁺ ion**
ÖZAY H., ÖZAY Ö.
CHEMICAL ENGINEERING JOURNAL, vol.232, pp.364-371, 2013 (SCI-Expanded)
- LVII. **Comparison Study of Low Cost Fly Ash Supported Cu, Co and Ni Metal Catalyst Systems for the Reduction of 4-Nitrophenol**
Ozay H.
SCIENCE OF ADVANCED MATERIALS, vol.5, no.6, pp.575-582, 2013 (SCI-Expanded)
- LVIII. **Spectroscopic Studies and Structure of 3-methoxy-2-[(2,4,4,6,6-pentachloro-1,3,5,2,2,5,4,2,5,6,6,5-triazatriphosphin-2-yl)oxy]benzaldehyde**
Özay H., Yıldız M., Ünver H., Durlu T. N.
Crystallography Reports, vol.58, pp.102-105, 2013 (SCI-Expanded)
- LIX. **Spectroscopic studies and crystal structure of (E)-N'-(2-hydroxy-3-methoxybenzylidene)isonicotinohydrazide**
Ozay H., Yildiz M., Unver H., Kiraz A.
CRYSTALLOGRAPHY REPORTS, vol.58, no.1, pp.106-110, 2013 (SCI-Expanded)
- LX. **Spectroscopic studies and structure of 3-methoxy-2-[(2,4,4,6,6-pentachloro-1,3,5,2- λ (5),4- λ (5),6- λ (5)-triazatriphosphin-2-yl)oxy]benzaldehyde**
ÖZAY H., YILDIZ M., Unver H., Durlu T. N.
CRYSTALLOGRAPHY REPORTS, vol.58, no.1, pp.102-105, 2013 (SCI-Expanded)
- LXI. **Stability Constants of Some Polydentate Ligands with Nickel(II) by Spectrophotometric Titration**
ÖZAY H., ÜLGEN A., Baran Y.
CHINESE JOURNAL OF INORGANIC CHEMISTRY, vol.28, no.8, pp.1680-1686, 2012 (SCI-Expanded)
- LXII. **Spectroscopic Studies and Crystal Structure of Four-Coordinate Manganese(II) Chloride Complex**
ÖZAY H., YILDIZ M., Unver H., Iskeleli N. O.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.42, no.6, pp.872-877, 2012 (SCI-Expanded)
- LXIII. **Copper and cobalt complexes of octadentate azamacrocycles: Spectrophotometric titration, stopped-flow kinetics and crystallographic study**
ÖZAY H., Baran Y., Ishii Y.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.83, no.1, pp.525-531,

2011 (SCI-Expanded)

- LXIV. **Spectroscopic and structural properties of N-(acetamide) morpholinium bromide**
Baran Y., ÖZAY H., Esener H., Turkyilmaz M.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.81, no.1, pp.99-103, 2011 (SCI-Expanded)
- LXV. **Synthesis, Spectral Studies, Antimicrobial Activity and Crystal Structures of Phosphaza-Lariat Ethers**
ÖZAY H., YILDIZ M., Unver H., Dülger B.
ASIAN JOURNAL OF CHEMISTRY, vol.23, no.6, pp.2430-2436, 2011 (SCI-Expanded)
- LXVI. **The stabilities and formation kinetics of some macrocycles with copper(II): crystal structures of some pendant arm macrocycles**
ÖZAY H., Baran Y., Miyamae H.
JOURNAL OF COORDINATION CHEMISTRY, vol.64, no.8, pp.1469-1480, 2011 (SCI-Expanded)
- LXVII. **Synthetic, structural, spectroscopic, and stopped-flow kinetic investigation of imine production**
Baran Y., ÖZAY H., Esener H.
PROGRESS IN REACTION KINETICS AND MECHANISM, vol.36, no.2, pp.178-188, 2011 (SCI-Expanded)
- LXVIII. **Utilization of Environmentally Benign Hydrogels and Their Networks as Reactor Media in the Catalytic Reduction of Nitrophenols**
ÖZAY H., Kubilay Ş., Aktaş N., ŞAHİNER N.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS, vol.60, no.2, pp.163-173, 2011 (SCI-Expanded)
- LXIX. **Synthesis, Spectroscopic Studies and Structure of 2-[(Benzo[d]thiazol-2-ylamino)methyl]phenol**
YILDIZ M., ÖZAY H., Unver H., Iskeleli N. O., Zengin D. M., Durlu T. N.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.11, pp.909-913, 2010 (SCI-Expanded)
- LXX. **A soft hydrogel reactor for cobalt nanoparticle preparation and use in the reduction of nitrophenols**
ŞAHİNER N., ÖZAY H., ÖZAY Ö., Aktaş N.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.101, pp.137-143, 2010 (SCI-Expanded)
- LXXI. **New catalytic route: Hydrogels as templates and reactors for in situ Ni nanoparticle synthesis and usage in the reduction of 2-and 4-nitrophenols**
ŞAHİNER N., ÖZAY H., ÖZAY Ö., Aktaş N.
APPLIED CATALYSIS A-GENERAL, vol.385, pp.201-207, 2010 (SCI-Expanded)
- LXXII. **Synthesis, Spectroscopic Studies and Antimicrobial Activity of Tetrakis(4-bromo-2-formylphenoxy)cyclotriphosphazene and its Imino-Amino Derivatives**
ÖZAY H., YILDIZ M., Dülger B., Unver H.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.5, pp.3813-3823, 2010 (SCI-Expanded)
- LXXIII. **Synthesis, complex formation kinetics and thermodynamic study of some acyclic polyamine and N2O2 ligands with copper(II)**
ÖZAY H., Baran Y.
JOURNAL OF COORDINATION CHEMISTRY, vol.63, no.24, pp.4299-4308, 2010 (SCI-Expanded)
- LXXIV. **Spectroscopic study and structure of (E)-2-[(2-chlorobenzylimino)methyl]methoxyphenol**
Unver H., YILDIZ M., ÖZAY H., Durlu T. N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.74, no.5, pp.1095-1099, 2009 (SCI-Expanded)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **An Ultrasensitive Electrochemical Biosensor System for Selective Detection of Aflatoxin B1 In Real Food Samples**
Uzman E., Tarimeri N., DEMİRBAKAN B., ÖZAY H., ÖZAY Ö., SEZGİNTÜRK M. K.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, 03 November 2022, (Summary Text)
- II. **An Innovative and Low-cost Electrochemical Biosensing System for Detection of Alphafetoprotein**

Protein: A Potential Biomarker for Ovarian Cancer

ÖZCAN B., ÖZAY H., ÖZAY Ö., SEZGİNTÜRK M. K.

4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, 03 November 2022,
(Summary Text)

- III. **A Novel Electrochemical Biosensor Design Based on 3-MPDS for Early Detection of AFB1**
Tarimeri N., DEMİRBAKAN B., ÖZAY H., ÖZAY Ö., SEZGİNTÜRK M. K.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, 03 November 2022,
(Summary Text)
- IV. **Desteklenmiş Metal Nanoparçacıkların Amin Boran Bileşiklerinin Hidrolizi ile Hidrojen Üretiminde Katalizör Olarak Kullanımı (Sözlü Sunum, SS032)**
Tercan Yavaşoğlu M., Özay H., Özay Ö.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.73, (Summary Text)
- V. **Polimerik Ağ Yapılarda Hazırlanmış Pd(0) Nanopartiküllerinin Organo-Amin Boranların Hidroliz Reaksiyonundaki Katalitik Özelliklerinin İncelenmesi (Poster, PS075)**
Özay H., Tercan Yavaşoğlu M., Özay Ö., İlgin P.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.293, (Summary Text)
- VI. **Biyopolimer ile Kapsüllenmiş Metalik Nanopartiküllerin Sentezi ve Hidroliz Reaksiyonlarında Katalizör Olarak Kullanımı (Poster, PS074)**
Özay Ö., Şeref E., Tercan Yavaşoğlu M., Özay H., İlgin P.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.291, (Summary Text)
- VII. **An Electrochemical Sensor Design for Aflatoxin B1 Detection Based on Single-use ITO-PET Electrode Modified with 3-APTES Agent**
Uzman E., Tarimeri N., DEMİRBAKAN B., ÖZAY H., ÖZAY Ö., SEZGİNTÜRK M. K.
5th International Congress on Biosensors, 21 September 2022, (Summary Text)
- VIII. **Doğal Polimer İçerikli Hidrojel Ağ Yapısında Desteklenmiş Bakır Nanopartiküllerin Etilendiamin Bisboran'ın Hidrolizinde Katalizör Olarak Kullanılması**
Canger S., Özay H.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.362-363, (Summary Text)
- IX. **Kükürt İçeren Fosfazen Nanokürelerinin Kanser Tedavisi için Denetimli İlaç Salım Sistemi Olarak Kullanımı**
Özay Ö., Özsoy F., Önder A., Özay H., İlgin P., Cömert Önder F.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.333, (Summary Text)
- X. **Trimerik Fosfazen Halkasının Malzeme Kimyasındaki Uygulamaları**
Özay H., Önder A., Özay Ö., İlgin P.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.94, (Summary Text)
- XI. **Synthesis of New Types of Cationic Based Copolymeric Hydrogels and Their Usage in Dye Removal from Aqueous Solution**
Özay Ö., Önder A., İlgin P., Özay H.
Global Conference on Engineering Research (GLOBECER'21), Balıkesir, Turkey, 2 - 05 June 2021, pp.733-735,
(Summary Text)
- XII. **Urea and thiourea substitute piperazine compounds for the colorimetric and spectroscopic determination of cyanide anion**
İnegöl H., ÖZAY H.
: 8th Black Sea Basin Conference on Analytical Chemistry, 9 - 11 May 2018
- XIII. **Sulu ortamda siyanür iyonlarına karşı seçimli azofluorenon bazlı kolorimetrik sensörün sentezi ve uygulamaları**
Koç Ö. K., ÖZAY H.
XV: Ulusal Spektroskopi Kongresi, Yalova, Turkey, 17 - 19 May 2017, pp.51, (Full Text)
- XIV. **Amin Fonksiyonlu Silika Partikülleri ile Desteklenmiş Metal Katalizörlerin Sentezi ve Uygulamaları**
ŞAHİN Ö., ÖZAY H.
XV. Ulusal Spektroskopi Kongresi, Yalova, Turkey, 17 - 19 May 2017, pp.114, (Full Text)

- XV. **Fully Substituted Functional Phosphazene Compounds as Selective Anion Probes**
ÖZAY H., YILDIRIM M., ÖZAY Ö.
10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.353, (Full Text)
- XVI. **The Synthesis and Application of New Phosphazene Compound as Highly Selective Cyanide Sensor**
Koç Ö. K., ÖZAY H.
10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.354, (Full Text)
- XVII. **Synthesis and Applications of New Type Urea Derivative Ion Sensors**
İnegöl H., ÖZAY H.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016, pp.476, (Summary Text)
- XVIII. **YENİ TÜR KÜKÜRT İÇEREN HİDROJELLERİN SENTEZİ VE SULU ÇÖZELTİDEN DEĞERLİ METAL İYONLARI ABSORBSİYONU İÇİN KULLANILMASI**
İRKİN L. C., ÖZAY H., ÖZAY Ö.
27. ULUSAL KİMYA KONGRESİ, Turkey, 23 - 28 August 2015, pp.261
- XIX. **ÇANAKKALE BOĞAZINDA DAĞILIM GÖSTEREN BAZI MAKRO ALGLERDEN BİYİYAKIT ÜRETİMİ**
İRKİN L. C., ÖZAY H., ERDUĞAN H.
27. ULUSAL KİMYA KONGRESİ, Turkey, 23 - 28 August 2015, pp.812
- XX. **FOSFAZEN ÇEKİRDEKLİ DENDRİMERİK İYON SENSÖRLERİNİN SENTEZİ VE UYGULAMALARI**
ÖZAY H., ÖZAY Ö., YILDIRIM M.
27. ULUSAL KİMYA KONGRESİ, Turkey, 23 - 28 August 2015
- XXI. **FONKSİYONEL FOSFAZEN MİKROKÜRELERİNİN SENTEZİ VE UYGULAMALARI**
ÖZAY H., ÖZAY Ö., ŞAHİN Ö., KOÇ Ö. K.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.685, (Full Text)
- XXII. **ÜRE VE TİYOÜRE SÜBSTİTÜE CYCLEN BİLEŞİKLERİNİN SENTEZİ VE İYON ALGILAYICI ÖZELLİKLERİNİN İNCELENMESİ**
İNEGÖL H., ÖZAY H.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.214, (Full Text)
- XXIII. **Synthesis and applications of novel hexapodal phosphazene based metal ion sensors with high selectivity**
ÖZAY H., Kagit R., YILDIRIM M., ÖZAY Ö., Yeşilot S.
5th- European Chemistry Congress, İstanbul, Turkey, 31 August - 04 September 2014, pp.883, (Full Text)
- XXIV. **A novel azobenzene compound with cyclotriphosphazene core for naked eye detection of cyanide ions**
ÖZAY H.
5th- European Chemistry Congress, İstanbul, Turkey, 31 August - 04 September 2014, pp.882, (Full Text)
- XXV. **DİKLORO BİS Z 6 2 KLOROBENZİLAMİNO METİLEN 2 METOKSİ HEKZA 2 4 DİENON MANGAN İİ KOMPLEKSİNİN SENTEZİ VE KRİSTAL YAPISININ İNCELENMESİ**
ÖZAY H., YILDIZ M., ÜNVER H.
III. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 19 - 22 May 2011
- XXVI. **MONO FENOKSİFORMİL FOSFAZEN SENTEZİ YAPISININ SPEKTROSKOPİK VE KRİSTALLOGRAFİK YÖNTEMLER İLE İNCELENMESİ**
ÖZAY H., YILDIZ M., ÜNVER H.
III. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 19 - 22 May 2011
- XXVII. **Mono Fenoksiformil Fosfazen Sentezi, Yapısının Spektroskopik Ve Kristallografik Yöntemler İle İncelenmesi**
ÖZAY H., YILDIZ M., Ünver H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 1 - 04 May 2011, pp.154, (Full Text)
- XXVIII. **Dikloro-Bis[(Z)-6-((2-Klorobenzilamino)Metilen)-2-Metoksi Hekza-2,4-Dienon]Mangan(II) Kompleksinin Sentezi Ve Kristal Yapısının İncelenmesi**
ÖZAY H., YILDIZ M., Ünver H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 1 - 04 May 2011, pp.153, (Full Text)
- XXIX. **Hyaluronic acid hydrogel particles with micron and nano dimensions and their applications in drug**

delivery

İlgin P., ÖZAY H., Aktaş N., John V. T., Blake D. A., Ayyala R. S., ŞAHİNER N.

The 238th ACS National Meeting, Washington, DC, United States Of America, 1 - 04 August 2009, vol.238, pp.246-0, (Full Text)

- XXX. **Complexation of some pendant arm tetraazamacrocycles of Cu(II) and Co(II): Structural, thermodynamic and kinetic studies**
Baran Y., ÖZAY H., Aktaş N., Miyamae H., ŞAHİNER N.
The 238th ACS National Meeting, United States Of America, vol.238, pp.558-0, (Full Text)
- XXXI. **Hydrogel networks for metal nanoparticle syntheses and their applications in catalysis**
ÖZAY H., Aktaş N., Baran Y., John V. T., ŞAHİNER N.
The 238th ACS National Meeting, Washington, DC, United States Of America, 1 - 04 August 2009, vol.238, pp.515-0, (Summary Text)
- XXXII. **FORMİL FOSFAZENLERİN SENTEZİ VE AMİNLER İLE REAKSİYONLARININ İNCELENMESİ**
ÖZAY H., YILDIZ M.
XXIII. ULUSAL KİMYA KONGRESİ, Turkey, 16 - 20 June 2009
- XXXIII. **HİYALURONİK ASİT PARTİKÜLLERİ İLE İLAÇ SALIM SİSTEMLERİ**
ÖZAY H., İLGIN P., ŞAHİNER N.
XXIII. ULUSAL KİMYA KONGRESİ, Turkey, 16 - 20 June 2009
- XXXIV. **HİYALURONİK ASİT MİKRON VE NANO HİDROJEL PARTİKÜLLERİNİN SENTEZİ KARAKTERİZASYONU VE BİYOLOJİK ALANLARDAKİ UYGULAMALARI**
İLGIN P., ÖZAY H., ŞAHİNER N.
XXIII. ULUSAL KİMYA KONGRESİ, Turkey, 16 - 20 June 2009
- XXXV. **Formil Fosfazenlerin Sentezi ve Aminler İle Reaksiyonlarının İncelenmesi**
ÖZAY H., YILDIZ M.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 1 - 04 June 2009, (Full Text)
- XXXVI. **Hiyaluronik Asit Partikülleri ile İlaç Salım Sistemleri**
ÖZAY H., İlgin P., ŞAHİNER N.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 1 - 04 June 2009, pp.27, (Full Text)
- XXXVII. **Hiyaluronik Asit Mikron ve Nano Hidrojel Partiküllerinin Sentezi, Karakterizasyonu ve Biyolojik Alanlardaki Uygulamaları**
İlgin P., ÖZAY H., ŞAHİNER N.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 1 - 04 June 2009, (Full Text)
- XXXVIII. **2 BENZO D TİYAZOL 2 YLAMİNO METİL FENOL SENTEZİ YAPISININ SPEKTROSKOPİK VE KRİSTALLOGRAFİK YÖNTEMLER İLE İNCELENMESİ**
ÖZAY H., YILDIZ M., ÜNVER H., OCAK İSKELELİ N.
XXII. ULUSAL KİMYA KONGRESİ, Turkey, 6 - 10 October 2008
- XXXIX. **AMİNOPODAND SENTEZİ VE TRİMERİK FOSFAZEN İLE REAKSİYONUNUN İNCELENMESİ**
ÖZAY H., YILDIZ M.
XXII. ULUSAL KİMYA KONGRESİ, Turkey, 6 - 10 October 2008
- XL. **2-[(Benzo[D]tiyazol-2-ylamino)Metil]fenol Sentezi, Yapısının Spektroskopik ve Kristallografik Yöntemler İle İncelenmesi**
ÖZAY H., YILDIZ M., Ünver H., İskeleli N. O.
XXII. Ulusal Kimya Kongresi, Cyprus (Kkct), 1 - 04 October 2008, (Full Text)
- XLI. **Aminopodand Sentezi ve Trimerik Fosfazen İle Reaksiyonunun İncelenmesi, XXII. Ulusal Kimya Kongresi**
ÖZAY H., YILDIZ M.
XXII. Ulusal Kimya Kongresi, Cyprus (Kkct), 1 - 04 October 2008, (Full Text)
- XLII. **Maleimit, Maleik Anhidrit Ve 3,4,5,6-Tetrahidroftalik Anhidritin Olefinik ve Asetilenik Bağ İçeren Moleküllerle Verdiği [2+2] Fotosiklokatalıma Reaksiyonlarının İncelenmesi**
ÖZAY H., GÜLTEN Ş.
XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 1 - 04 October 2005, (Full Text)

Funded Projects

- Özay Ö., Özay H., Ilgın P., Atlı I., Karabayır E. S., Project Supported by Higher Education Institutions, Fiziksel ve Kimyasal Yolla Çapraz Bağlanmış Zein Proteini Bazlı Hidrojel Kompozitlerin Yeşil Sentez ile Hazırlanması Yara İyileştirme ve Anti Kanser Etkilerinin İncelenmesi, 2024 - 2025
- 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
- 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
- ÖZAY H., Dilek E., Project Supported by Higher Education Institutions, Siklomatriks Poli[Siklotrifosfazen-ko-(4,4'-Metilenbis(2-metilsikloheksilamin)] Yapılarının Sentezi ve Kontrollü İlaç Salım Sistemi Olarak Kullanımları, 2022 - 2023
- 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
- DEMİRBAKAN B., Tarimeri 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
- 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
- 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
- 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
- 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
- ÖZAY H., ÖNDER A., Project Supported by Higher Education Institutions, Siklotrifosfazen Halkası İçeren Bazı Polimerik Yapıların Sentezi ve Uygulamaları, 2019 - 2021
- ÖZAY H., DURGUT S., Project Supported by Higher Education Institutions, Polimer Destekli Gümüş Nanopartiküllerin Sentezi ve Boran Türevi Bileşiklerin Hidrolizinde Katalizör Olarak Kullanılması, 2019 - 2021
- 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
- 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
- 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
- ÖZAY H., Koç Ö. K., Project Supported by Higher Education Institutions, Yeni Moleküler İyon Algılayıcıların Sentezi ve Uygulamaları, 2016 - 2017
- ÖZAY H., Şahin Ö., Project Supported by Higher Education Institutions, Fonksiyonel Silika İçerikli Metal Kompozitlerin Sentezi ve Katalizör Uygulamalarının Araştırılması, 2016 - 2017
- Özay H., Özay Ö., Yıldırım M., TUBITAK Project, Fosfazen Kimyasına Farklı Bir Bakış: Fosfazen Bazlı Yeni Tür İyon Sensörlerinin Sentezi Ve Uygulamaları, 2012 - 2015
- 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
- ÖZAY H., Project Supported by Higher Education Institutions, 2-Hidroksi Schiff Bazları ve Komplekslerinin Sentezi, Yapılarının Spektroskopik ve Kristallografik Yöntemler İle Aydınlatılması, 2011 - 2012
- YILDIZ M., ÖZAY H., Project Supported by Higher Education Institutions, Halkalı Fosfazenlerin Aminoliz ve Alkoliz Reaksiyonlarının İncelenmesi, 2009 - 2010
- ALGI F., ÖZAY H., Project Supported by Higher Education Institutions, Foto-Elektro- Aktif Yeni Bir İyon Sensörü Sentezi,

Tanımlanması ve Fotofiziksel Özellikleri, 2008 - 2009

ÖZAY H., TÜBİTAK Project, Bazı Makrosiklik ve Asiklik $NxOy$, $NxSy$ ve Nx Donör Atomlu Ligantların Metal

Komplekslerinin Oluşum Kinetiklerinin ve Kararlılık Sabitlerinin Spektrofotometrik Yöntemlerle İncelenmesi, 2005 - 2007

ÖZAY H., TÜBİTAK Project, [2+2] Fotokatılma Reaksiyonları Kullanılarak Maleik Anhidrit ve Maleimitten Trisiklik Lakton Sentezi, 2004 - 2007

Peer Reviews in Scientific Publications

New Journal of Chemistry, SCI Journal, November 2015

Industrial & Engineering Chemistry Research, SCI Journal, July 2015

Sensors and Actuators B: Chemical , SCI Journal, May 2015

Phosphorus, Sulfur, and Silicon and the Related Elements, SCI Journal, May 2015

Inorganic Chemistry, SCI Journal, March 2015

Sensors and Actuators B: Chemical , SCI Journal, January 2015

Journal of Organic Chemistry, SCI Journal, October 2014

Sensors and Actuators B: Chemical , SCI Journal, October 2014

Research on Chemical Intermediates, SCI Journal, July 2014

Sensors and Actuators B: Chemical , SCI Journal, June 2014

Science of Advanced Materials, SCI Journal, February 2013

Scientific Project Refereeing

TÜBİTAK Project, September 2014

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