

Assoc. Prof. GAMZE ELMAS

Personal Information

Email: gegemen@ankara.edu.tr
Web: <https://avesis.ankara.edu.tr/gegemen>

International Researcher IDs

ScholarID: S1TvDw4AAAAJ
ORCID: 0000-0003-4877-3697
Publons / Web Of Science ResearcherID: AAL-1245-2021
ScopusID: 55510450700
Yoksis Researcher ID: 122578

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2007 - 2014
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Turkey 2005 - 2007
Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 2001 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yeni spiroansa-spiro- ve ansa-spiroansa- tetrafosfazen türevlerinin sentezi, kristal yapıları, spektroskopik ve stereojenik özelliklerinin incelenmesi, biyolojik aktivitelerinin ve DNA'xxya etkilerinin araştırılması., Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2014
Postgraduate, Fosfaza-porfirin ligant ve komplekslerinin sentezi, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), 2007

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2018 - Continues
Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 2010 - 2018

Courses

Temel Kimya I (Zootekni Bölümü), Undergraduate, 2023 - 2024

Temel Kimya II (ZİRAAT FAKÜLTESİ ZOOTEKNİ), Undergraduate, 2022 - 2023
General Chemistry Laboratory (Kimya Mühendisliği Bölümü - %100 İngilizce), Undergraduate, 2023 - 2024
Chemistry , Undergraduate, 2023 - 2024
Anorganik Kimya Lab., Undergraduate, 2022 - 2023
Chemistry Laboratory (Biyomedikal Mühendisliği Bölümü %100 İngilizce Program), Undergraduate, 2023 - 2024
Tez Çalışması, Doctorate, 2021 - 2022
Temel Kimya Laboratuvarı (Fizik Müh.), Undergraduate, 2021 - 2022
Temel Kimya I (Zootekni), Undergraduate, 2022 - 2023
Temel Kimya (TYS), Undergraduate, 2022 - 2023
Chemistry Laboratory (Biyomedikal Mühendisliği Bölümü - %100 İngilizce Program), Undergraduate, 2022 - 2023
TEMEL KİMYA II (TBBB), Undergraduate, 2021 - 2022
General Chemistry Laboratory (Kimya Mühendisliği Bölümü - %100 İngilizce Program), Undergraduate, 2022 - 2023
Anorganik Kimya Laboratuvarı, Undergraduate, 2021 - 2022
Uzmanlık Alan Dersi, Doctorate, 2021 - 2022
TEMEL KİMYA I (TBBB), Undergraduate, 2021 - 2022
TEMEL KİMYA I (TYS), Undergraduate, 2021 - 2022
CHEMICAL LABORATORY (Biyomedikal Müh.), Undergraduate, 2021 - 2022
GENERAL CHEMISTRY LABORATORY (Kimya Müh.), Undergraduate, 2021 - 2022
Temel Kimya Laboratuvarı (Fizik Mühendisliği Bölümü- %30 İngilizce Program), Undergraduate, 2018 - 2019
Temel Kimya (Jeofizik Mühendisliği Bölümü), Undergraduate, 2018 - 2019
TEMEL KİMYA (SU URÜNLERİ MÜHENDİSLİĞİ), Undergraduate, 2018 - 2019
TEMEL KİMYA (TARLA BİTKİLERİ BÖLÜMÜ), Undergraduate, 2018 - 2019

Advising Theses

Elmas G., Mono- ve Bis- (4-Florobenzil)spiro(N/O)siklotrifosfazenlerin Farklı Gruplarla Tepkimeleri ve Oluşan Ürünlerin Spektral ve Kristallografik Karakterizasyonu., Postgraduate, Ö.ÖZDEMİR(Student), Continues
Elmas G., Ferrosenil siklotetrafosfazenlerin N/N, N/O ve N2O2 donörlü bidentat ve tetradentat ligandlar ile reaksiyonlarının incelenmesi, stereojenik, elektrokimyasal ve biyolojik özelliklerinin araştırılması, Doctorate, G.MUTLU(Student), 2023
ELMAS G., 4-florobenzil-spiro(N/O)-siklotrifosfazenin değişen stokiyometrik oranlarda primer ve sekonder aminlerle tepkimeleri ve yeni ürünlerin spektroskopik, kristallografik ve stereojenik özelliklerinin incelenmesi, Postgraduate, Ö.FARUK(Student), 2019

Jury Memberships

Post Graduate, Post Graduate, Ankara Üniversitesi, June, 2023
Post Graduate, Post Graduate, Ankara Üniversitesi, January, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, August, 2022
Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, May, 2022
Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2022
Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2022
Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, October, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, February, 2020
Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, April, 2019
Post Graduate, Post Graduate, Ankara Üniversitesi, January, 2019
Post Graduate, Post Graduate, Gazi Üniversitesi, December, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Phosphorus-nitrogen compounds. Part 73. Dispiromono and dispirobicyclotetraphosphazene derivatives: syntheses, and spectroscopic, crystallographic and thermal studies**
ELMAS G., OKUMUŞ A., Kılıç Z., Hökelek T.
New Journal of Chemistry, 2024 (SCI-Expanded)
- II. **Phosphorus-nitrogen compounds: part 70. Syntheses of tetraaminomonobis(4-fluorobenzyl)spiro(N/N)cyclotriphosphazenes: structural characterization, Hirshfeld surface analysis and comparative evaluation of esterase activities of hCA I and hCA II isoenzymes**
OKUMUŞ A., ELMAS G., Binici A., Tunca E., Hökelek T., Kılıç Z.
New Journal of Chemistry, vol.47, no.18, pp.8578-8588, 2023 (SCI-Expanded)
- III. **Phosphorus-nitrogen compounds. Part 67. The reactions of Mono/bis (4-fluorobenzyl)spiro(N/N)cyclotriphosphazenes with sodium(3-amino-1-propanoxide): investigation of spectral properties, DNA-cleavage and antimicrobial activities**
OKUMUŞ A., ELMAS G., KILIÇ Z., Gönder L. Y., AÇIK L.
PHOSPHORUS, SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.198, pp.272-282, 2023 (SCI-Expanded)
- IV. **Phosphorus-nitrogen compounds. Part 58. Syntheses, structural characterizations and biological activities of 4-fluorobenzyl-spiro(N/O)cyclotriphosphazene derivatives**
Binici A., ELMAS G., OKUMUŞ A., Erden Tayhan S., Hokelek T., SABAH B. N., AÇIK L., Kılıç Z.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.1, pp.298-318, 2023 (SCI-Expanded)
- V. **Phosphorus-nitrogen compounds: Part 60: Synthesis of hexaminomonoferroacenyl-spiro(N/O)cyclotetraphosphazenes: Spectral and electrochemical properties, tuning of redox feature, and antituberculosis activity**
Binici A., Elmas G., Okumuş A., Güzel R., Şimşek H., Kılıç Z.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.198, no.1, pp.21-33, 2023 (SCI-Expanded)
- VI. **Phosphorus-nitrogen compounds. Part 65. Novel diansa-spiro-cyclotetraphosphazenes: synthesis, characterization, bioactivity and electrochemical properties, and dye-sensitized solar cell fabrication studies**
Mutlu G., Okumuş A., Elmas G., Kılıç Z., Güzel R., Sabah B. N., Açık L., Mergen H., Hokelek T.
NEW JOURNAL OF CHEMISTRY, vol.46, no.38, pp.18384-18401, 2022 (SCI-Expanded)
- VII. **Phosphorus-nitrogen compounds. Part 62. Preparation of tetraaminobis (4-fluorobenzyl)spiro(N/N)cyclotriphosphazenes: Chemical, structural characterizations, antimicrobial, antioxidant and DNA-binding activity studies**
Okumuş A., Elmas G., Binici A., Aydin B., Açık L., Kılıç Z., Hökelek T.
INORGANICA CHIMICA ACTA, vol.538, 2022 (SCI-Expanded)
- VIII. **Phosphorus-nitrogen compounds. Part 64. Comparative reactions of spiro and ansa (N/O) cyclotetraphosphazenes with bulky (4-fluorobenzyl) N/N and N/O donor type bidentate reagents: structure, stereogenic properties and cytotoxic activity studies**
Elmas G., Binici A., Yakut M., Okumuş A., Kılıç Z., Çoşut B., Hökelek T., Cerci N. A., Açık L.
NEW JOURNAL OF CHEMISTRY, vol.46, no.33, pp.16096-16113, 2022 (SCI-Expanded)
- IX. **Phosphorus-nitrogen compounds part 59. The syntheses of tetrachloro and tetraamino-2-pyridylmethylspiro(N/N)ethylenediaminocyclotriphosphazenes: Structural characterization, bioactivity, and molecular docking studies**
Bozkurt B., Elmas G., Yakut M., Okumuş A., Cerci N. A., Zeyrek C. T., Kılıç Z., Açık L., Hokelek T.
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.69, no.2, pp.310-331, 2022 (SCI-Expanded)
- X. **Phosphorus-nitrogen compounds. Part 56. Comparative syntheses and spectral properties of multiheterocyclic 2-*cis*-4-ansa and spiro-ferrocenyl (N/O)cyclotetraphosphazenes: Antituberculosis and antimicrobial activity and DNA interaction studies**
Binici A., Okumuş A., Yakut M., Elmas G., Kılıç Z., Koyunoglu D., Açık L., Şimşek H.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.197, no.1, pp.18-29, 2022 (SCI-Expanded)

- Expanded)
- XI. **Phosphorus-nitrogen compounds. Part 54. syntheses of chiral amino-4-fluorobenzyl-spiro(N/O)cyclotriphosphazenes: structural and stereogenic properties**
Mutlu O. F., Binici A., OKUMUŞ A., ELMAS G., ÇOŞUT B., Kılıc Z., HÖKELEK T.
NEW JOURNAL OF CHEMISTRY, vol.45, no.27, pp.12178-12192, 2021 (SCI-Expanded)
- XII. **Synthesis of Bis(2,2,3,3-tetrafluoro-1,4-butanedialkoxy)-2-trans-6-bis(4-fluorobenzyl)spirocyclotetraphosphazene: Structural Characterization, Biological Activity and DFT Studies**
ELMAS G., Kılıc Z., ÇOŞUT B., Kesan G., AÇIK L., Cam M., TUNALI B. Ç., TÜRK M., HÖKELEK T.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.51, no.2, pp.235-250, 2021 (SCI-Expanded)
- XIII. **The comparative reactions of 2-*cis*-4-ansa and spiro cyclotetraphosphazenes with difunctional ligands: Structural and stereogenic properties, electrochemical, antimicrobial and cytotoxic activity studies**
Okumuş A., Elmas G., Kılıc Z., Binici A., Ramazanoglu N., Açıklı, Ç., Çoşut B., Hökelek T., Güzel R., Tunalı B. Ç., et al.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.4, 2021 (SCI-Expanded)
- XIV. **Phosphorus-nitrogen compounds. Part 48. syntheses of the phosphazinium salts containing 2-pyridyl pendant arm: structural characterizations, thermal analysis, antimicrobial and cytotoxic activity studies**
Elmas G., Okumuş A., Kılıc Z., Ozbeden P., Açıklı, Tunalı B. Ç., Türk M., Cerci N. A., Hökelek T.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.59, no.4, pp.533-550, 2020 (SCI-Expanded)
- XV. **Phosphorus-nitrogen compounds (Part 51): the relationship between spectroscopic and crystallographic data of mono- and di-spirocyclophosphazene derivatives with 4-fluoro/nitrophenylmethyl pendant arm/arms**
OKUMUŞ A., ELMAS G., ASMAFİLİZ N., BİLGE KOÇAK S., Kılıc Z.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.559-573, 2020 (SCI-Expanded)
- XVI. **Phosphorus-nitrogen compounds- (Part 50): correlations between structural parameters for cyclophosphazene derivatives containing ferrocenyl pendant arm(s)**
ASMAFİLİZ N., ELMAS G., OKUMUŞ A., BİLGE KOÇAK S., Kılıc Z.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.543-558, 2020 (SCI-Expanded)
- XVII. **Phosphorus-nitrogen compounds. Part 52. The reactions of octachlorocyclotetraphosphazene with sodium 3-(N-ferrocenylmethylamino)-1-propanoxide: Investigations of spectroscopic, crystallographic and stereogenic properties**
Elmas G., Okumuş A., Hökelek T., Kılıc Z.
INORGANICA CHIMICA ACTA, vol.497, 2019 (SCI-Expanded)
- XVIII. **Phosphorus-nitrogen compounds. Part 42. The comparative syntheses of 2-*cis*-4-ansa(N/O) and spiro(N/O) cyclotetraphosphazene derivatives: spectroscopic and crystallographic characterization, antituberculosis and cytotoxic activity studies**
Binici A., Okumuş A., Elmas G., Kılıc Z., Ramazanoglu N., Açıklı, Şimşek H., Tunalı B. Ç., Türk M., Güzel R., et al.
NEW JOURNAL OF CHEMISTRY, vol.43, no.18, pp.6856-6873, 2019 (SCI-Expanded)
- XIX. **Syntheses and structural characterizations of 2-pyridyl(N/O)spirocyclotriphosphazene derivatives**
Elmas G.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.194, no.1-2, pp.13-24, 2019 (SCI-Expanded)
- XX. **Phosphorus-nitrogen compounds. Part 40. The syntheses of (4-fluorobenzyl) pendant armed cyclotetraphosphazene derivatives: Spectroscopic, crystallographic and stereogenic properties, DNA interactions and antimicrobial activities**
ELMAS G., OKUMUŞ A., Kılıc Z., Cam M., AÇIK L., HÖKELEK T.
INORGANICA CHIMICA ACTA, vol.476, pp.110-122, 2018 (SCI-Expanded)
- XXI. **Phosphorus-nitrogen compounds. part 38. Syntheses, characterizations, cytotoxic, antituberculosis and antimicrobial activities and DNA interactions of spirocyclotetraphosphazenes with bis-**

ferrocenyl pendant arms

Elmas G., Okumuş A., Cemaloğlu R., Kılıç Z., Celik S. P., Açık L., Tunalı B. Ç., Türk M., Cerci N. A., Güzel R., et al.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.853, pp.93-106, 2017 (SCI-Expanded)

- XXII. **Phosphorus-nitrogen compounds. Part 37. Syntheses and structural characterizations, biological activities of mono and bis(4-fluorobenzyl)spirocyclotetraphosphazenes**

ELMAS G., OKUMUŞ A., Sevinc P., Kılıç Z., AÇIK L., Atalan M., TÜRK M., Deniz G., HÖKELEK T.

NEW JOURNAL OF CHEMISTRY, vol.41, no.13, pp.5818-5835, 2017 (SCI-Expanded)

- XXIII. **The reactions of N₃P₃Cl₆ with monodentate and bidentate ligands: the syntheses and structural characterizations, in vitro antimicrobial activities, and DNA interactions of 4-fluorobenzyl(N/O)spirocyclotriphosphazenes**

Okumuş A., Elmas G., Kılıç Z., Ramazanoglu N., Açık L., Türk M., Akça G.

TURKISH JOURNAL OF CHEMISTRY, vol.41, no.4, pp.525-547, 2017 (SCI-Expanded)

- XXIV. **The reactions of 2-trans-6-bis(4-fluorobenzyl)spirocyclotetraphosphazene with primary amines: spectroscopic and crystallographic characterizations**

ELMAS G.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.192, no.11, pp.1224-1232, 2017 (SCI-Expanded)

- XXV. **Phosphorus-nitrogen compounds. Part 35. Syntheses, spectroscopic and electrochemical properties, and antituberculosis, antimicrobial and cytotoxic activities of mono-ferrocenyl-spirocyclotetraphosphazenes**

Okumuş A., Elmas G., Cemaloğlu R., Aydin B., Binici A., Şimşek H., Açık L., Türk M., Güzel R., Kılıç Z., et al.

NEW JOURNAL OF CHEMISTRY, vol.40, no.6, pp.5588-5603, 2016 (SCI-Expanded)

- XXVI. **Phosphorus-nitrogen compounds: Part 31. Syntheses, structural and stereogenic properties, in vitro cytotoxic and antimicrobial activities, and DNA interactions of bicyclotetraphosphazenes containing bulky side group**

Mutlu G., ELMAS G., Kılıç Z., HÖKELEK T., Koc L. Y., TÜRK M., AÇIK L., AYDIN B., DAL H.

INORGANICA CHIMICA ACTA, vol.436, pp.69-81, 2015 (SCI-Expanded)

- XXVII. **Phosphorus-nitrogen compounds. Part 29. Syntheses, crystal structures, spectroscopic and stereogenic properties, electrochemical investigations, antituberculosis, antimicrobial and cytotoxic activities and DNA interactions of ansa-spiro-ansa cyclotetraphosphazenes**

Elmas G., Okumuş A., Koc L. Y., Soltanzade H., Kılıç Z., Hökelek T., Dal H., Açık L., Üstündağ Z., Dündar D., et al.

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.87, pp.662-676, 2014 (SCI-Expanded)

- XXVIII. **Phosphorus-nitrogen compounds. Part 24. Syntheses, crystal structures, spectroscopic and stereogenic properties, biological activities, and DNA interactions of novel spiro-ansa-spiro- and ansa-spiro-ansa- cyclotetraphosphazenes**

Elmas G., Okumuş A., Kılıç Z., Hökelek T., Açık L., Dal H., Ramazanoğlu N., Koç L.

Inorganic Chemistry, vol.51, no.23, pp.12841-12856, 2012 (SCI-Expanded)

- XXIX. **Phosphorus-nitrogen compounds Part 17: The synthesis, spectral and electrochemical investigations of porphyrinophosphazenes**

Egemen G., HAYVALI M., Kılıç Z., Solak A. O., ÜSTÜNDAĞ Z.

Journal of Porphyrins and Phthalocyanines, vol.14, no.3, pp.227-234, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Syntheses and spectral characterizations of tetraspirocyclotetraphosphazenes containing bis(4-fluorobenzyl) pendant arms**

OKUMUŞ A., ELMAS G., KILIÇ Z.

Journal of Ata-Chem, vol.1, no.1, pp.12-29, 2021 (Peer-Reviewed Journal)

- II. **Determination of Absolute Configuration of 8,8,10,10-Tetrachloro-20,21-dihydro-18H,23H-6,12-epiazeno-6λ₅,8λ₅,10λ₅,12λ₅-[1,3,2]benzoxazaphosphonino[2'xx,3'xx:8,9][1,3,5,7,9,2,4,6,8]**

- pentaazatetraphosphacyclooundsyno[2,1-B][1,3,2] benzoxazaphosphonine Using X-RAY Crystallography.**
 ELMAS G., OKUMUŞ A., İsaoglu S. S., HÖKELEK T., KILIÇ Z.
Commun. Fac. Sci. Univ. Ank. Series B, vol.61, pp.1-14, 2019 (Peer-Reviewed Journal)
- III. Designation of Absolute Configuration of Multiheterocyclic 9,13-dichloro-22,22-dipyrrolidine-1-yl-1H,2H,13H,19H-9,13-(epiazenophosphazeno)-9λ5,11λ5,13λ5-[1,3,5,2,4]benzoxadiazadiphosphonino[4'xx,5'xx:2,3][1,3,2]diazaphospholo[2,1-D][1,3,5,2,4]benzoxadiazadiphosphonine By X-RAY Crystallographic Data**
 ELMAS G., OKUMUŞ A., İsaoglu S. S., HÖKELEK T., KILIÇ Z.
Commun. Fac. Sci. Univ. Ank. Series B, vol.61, pp.15-30, 2019 (Peer-Reviewed Journal)
- IV. Syntheses and spectroscopic investigations of 2-pyridyl(N/N)spirocyclotriphosphazenes**
 Elmas G.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, no.2, pp.621-634, 2018 (Scopus)
- V. The Spectroscopic and Thermal Properties, Antibacterial and Antifungal Activity and DNA Interactions of 4- (Fluorobenzyl)Spiro(N/O) Cyclotriphosphazenum Salts.**
 ELMAS G., OKUMUŞ A., KILIÇ Z., Çelik S. P., AÇIK L.
J. Turk. Chem. Soc. Sect. A: Chem., vol.4, no.3, pp.993-1016, 2017 (Peer-Reviewed Journal)
- VI. The Syntheses and Structural Characterizations, Antimicrobial Activity and In vitro DNA Binding of 4-fluorobenzylspiro(N/O)cyclotriphosphazenes and Their Phosphazenum salts**
 ELMAS G., OKUMUŞ A., KILIÇ Z., Gönder L. Y., AÇIK L., HÖKELEK T.
Journal of the Turkish Chemical Society Section A: Chemistry, vol.3, no.3, pp.25-46, 2016 (Peer-Reviewed Journal)
- VII. THE SYNTHESES AND STRUCTURAL CHARACTERIZATIONS ANTIMICROBIAL ACTIVITY AND IN VITRO DNA BINDING OF 4 FLUOROBENZYL SPIRO N O CYCLOTRIPHOSPHAZENES AND THEIR PHOSPHAZENIUM SALTS**
 Elmas G., Okumuş A., Kılıç Z., Gönder L. Y., Açık L., Hökelek T.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.3, no.3, pp.25-46, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Antimicrobial, Antioxidant and DNA Cleavage Activities of Tetraaminobis(4-fluorobenzyl)spiro(N/N)cyclotriphosphazenes**
 Elmas G., Okumuş A., Binici A., Aydin B., Açık L., Kılıç Z.
ACS Spring 2023, Indiana, United States Of America, 26 - 30 March 2023, pp.2
- II. Syntheses of Tetraaminobis(4-fluorobenzyl)spiro(N/N)cyclotri phosphazenes: Evaluations of Chemical, Spectral and Crystallographic Properties**
 Elmas G., Okumuş A., Binici A., Kılıç Z., Hökelek T.
ACS Spring 2023, Indiana, United States Of America, 26 - 30 March 2023, pp.1
- III. Syntheses, Spectroscopic and Crystallographic Characterizations of Coumarin and Piperidine Substituted 2-Thiophenylmethylspiro(N/N)cyclotriphosphazenes**
 DEMİRCİ C. D., OKUMUŞ A., ELMAS G., KILIÇ Z., HÖKELEK T.
12th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS 2022), Turkey, 13 September - 19 October 2022
- IV. Syntheses, Spectroscopic and Crystallographic Characterizations of the 2-Thiophenylmethylspiro(N/N)di/tetrachlorocyclotriphosphazene derivatives**
 BALLI G., ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
12th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS 2022), Turkey, 13 September 2022
- V. Comparative syntheses of Monocyclic and Bicyclic 2-Trans-6-bis(4-fluorobenzyl)spirotetrachlorocyclotetra phosphazenes: Evaluations of Spectroscopic and Crystallographic Properties**

- ELMAS G., OKUMUŞ A., Binici A., KILIÇ Z., HÖKELEK T.
ACS Fall 2022, United States Of America, 21 - 25 August 2022
- VI. **Antibacterial, Antifungal and DNA Cleavage Activities of Monocyclic and Bicyclic 2-Trans-6-bis(4-fluorobenzyl)spirotetrachlorocyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., Binici A., AÇIK L., özbekden küçük p., KILIÇ Z.
ACS Fall 2022, CHICAGO, United States Of America, 21 August 2022
- VII. **Antiproliferative and antimigrative activities of 4-fluorobenzyl-spiro(N/O)cyclotriphosphazene derivatives**
ELMAS G., OKUMUŞ A., Binici A., ERDEN TAYHAN S., KILIÇ Z.
4. International Eurasian Conference on Biological and Chemical Sciences, Turkey, 24 September 2021
- VIII. **4-Florobenzil-Spiro(N/O)Siklotrifosfazen Türevlerinin Sentezi ve Spektroskopik Özellikler**
Elmas G., Okumuş A., Binici A., Kılıç Z.
VIII. Ulusal Anorganik Kimya Kongresi, Tekirdağ, Turkey, 2 - 05 September 2021, pp.51
- IX. **Chiral amino-4-fluorobenzyl-spiro(N/O)cyclotriphosphazenes: Syntheses, spectroscopic and stereogenic properties with chiral HPLC**
ELMAS G., OKUMUŞ A., Binici A., Mutlu Ö. F., KILIÇ Z., ÇOSUT B.
IUPAC CCCE 2021 - 104th Canadian Chemistry Conference and Exhibition, Canada, 13 August 2021
- X. **Syntheses of chiral 2-cis-4-ansa and spiro cyclotetraphosphazenes: Investigation of spectroscopic and stereogenic properties with chiral HPLC**
ELMAS G., OKUMUŞ A., Binici A., KILIÇ Z., ÇOSUT B., HÖKELEK T.
IUPAC CCCE 2021 - 104th Canadian Chemistry Conference and Exhibition, Canada, 13 August 2021
- XI. **Antituberculosis Activities of 2-cis-4-ansa and Spirocyclotetraphosphazene Derivatives Containing Difunctional Reagents**
OKUMUŞ A., ELMAS G., Binici A., KILIÇ Z., ŞİMŞEK H.
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XII. **Partly and Fully Primer Amine Substituted Mono- ferrocenylcyclotetraphosphazenes: The Investigations of Syntheses, The Antimicrobial and Dna Cleavage Activities**
ELMAS G., OKUMUŞ A., YAKUT M., Binici A., KILIÇ Z., Koyunoğlu D., AÇIK L.
International Asian Congress on Contemporary Sciences-V, Azerbaijan, 01 June 2021
- XIII. **Anticancer Activities of Spiro(N/O) and 2-cis-4-Ansa(N/O) Cyclotetraphosphazene Derivatives**
Okumuş A., Elmas G., Yakut M., Binici A., Kılıç Z., Çerçi N. A., Açık L., Türk M.
Cell Bio Virtual 2020-An Online ASCB|EMBO Meeting, Massachusetts, United States Of America, 2 - 06 December 2020, pp.612
- XIV. **Syntheses, Spectroscopic and Crystallographic Characterizations of Protic Ionic Liquids (PILs) containing 2-pyridyl pendant arm**
ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
9th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS 2019), fethiye, Turkey, 22 October 2019
- XV. **Syntheses, Spectroscopic and Crystallographic Characterizations of the Tetrapiperidino-2-pyridyl(N/O)spirocyclotriphosphazene and its Phosphazeniun Salt**
ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
9th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS 2019), fethiye, Turkey, 22 October 2019
- XVI. **The Thermal and Electrochemical Properties of 2-cis-4-ansa(N/O) and Spiro(N/O) Cyclotetraphosphazenes**
OKUMUŞ A., ELMAS G., Binici A., KILIÇ Z., GÜZEL R.
4th International Conference on Engineering and Natural Sciences, Turkey, 18 October 2019
- XVII. **The Biological Activity Studies of 2-cis-4-ansa(N/O) and spiro(N/O) cyclotetraphosphazene Derivatives**
OKUMUŞ A., ELMAS G., Binici A., KILIÇ Z., Ramazanoğlu N., AÇIK L., Tunali B. Ç., TÜRK M.
4th International Conference on Engineering and Natural Sciences, Turkey, 18 October 2019

- XVIII. **Mono-Ferrosenil N/O Spirosiklotetrafosfazenlerin N/O Dönorlü 4-florobenzil Ligandları ile Reaksiyonları ve Spektral Özellikleri**
ELMAS G., OKUMUŞ A., Binici A., YAKUT M., KILIÇ Z.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Turkey, 28 June 2019
- XIX. **Kısmen ve Tamamen Primer Amin Sübstítüe Mono-Ferrosenil Spirosiklotetrafosfazen Türevlerinin Antitüberküloz Aktiviteleri**
ELMAS G., OKUMUŞ A., Binici A., YAKUT M., ŞİMŞEK H., KILIÇ Z.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Turkey, 28 June 2019
- XX. **Syntheses, spectroscopic, crystallographic and stereogenic properties of the N/O donor type bis-ferrocenyl-cyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
ICINSE 2018 - 2nd International Conference on Innovations in Natural Science Engineering, Kiev, Ukraine, 7 - 10 September 2018, pp.130
- XXI. **Syntheses, spectroscopic and stereogenic properties of the bis-ferrocenyl-2-trans-6-dispiro-cyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z., CEMALOĞLU R.
The 4th International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2018), KIEV, Ukraine, 7 - 10 September 2018
- XXII. **Syntheses, structural and stereogenic properties of the mono-ferrocenyl-(N/O)cyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
The 2nd International Conference on Innovations in Naturel Science and Engineering (ICINSE 2018), KIEV, Ukraine, 7 - 10 September 2018
- XXIII. **Syntheses and spectroscopic investigations of spirocyclotetraphosphazenes with bis-ferrocenyl pendant arms**
ELMAS G., OKUMUŞ A., KILIÇ Z., CEMALOĞLU R.
The 4th International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2018), KIEV, Ukraine, 7 - 10 September 2018
- XXIV. **Syntheses and spectroscopic investigations of mono (4-fluorobenzyl)spirocyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z.
1st International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- XXV. **Syntheses, spectroscopic and crystallographic investigations of NN and NO donor type 2-pyridyl-spirocyclotriphosphazenes**
ELMAS G.
1st International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- XXVI. **The antimicrobial activities and DNA interactions of (4-fluorobenzyl) pendant armed octachlorocyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z., AÇIK L., ÇAM M.
1st International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018
- XXVII. **Tüberküloz Tedavisinde Uygulanabilecek Yeni İlaçların Üretiminde Kullanılacak Yerli Kimyasallar**
Elmas G., Okumuş A., Şimşek H., Cemaloğlu R.
29. Antalya OSB Ar-ge İnovasyon Proje Pazarı, Antalya, Turkey, 29 - 30 March 2018, pp.1-2
- XXVIII. **'Tüberküloz Tedavisinde Uygulanabilecek Yeni İlaçların Üretiminde Kullanılacak Yerli Kimyasallar'**
ELMAS G., OKUMUŞ A., CEMALOĞLU R., KILIÇ Z., BİNİCİ A., ŞİMŞEK H.
29. Antalya OSB Ar-ge İnovasyon Proje Pazarı, 29 March 2018
- XXIX. **Syntheses and Structural Characterizations of 2-Pyridyl-Spiro-Cyclotriphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z.
ANCON-2017 / International Congress On Chemistry And Materials Science, 5 - 07 October 2017
- XXX. **Mono-Ferrosenil Spirosiklotetrafosfazenlerin Antitüberküloz Aktivitelerinin İncelenmesi**

- ELMAS G., OKUMUŞ A., Binici A., KILIÇ Z., Şimşek H.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- XXXI. **Ferrosenil-siklotetrafosfazenlerin N2O2 donorlü tetridentat ligandlar ile reaksiyonlarının ve spektroskopik özelliklerinin incelenmesi**
Mutlu G., ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- XXXII. **Investigations of antimicrobial activities and DNA interactions of NN and NO donor typed (2-pyridyl)spiro-cyclotriphosphazenes**
özbeden p., AÇIK L., ELMAS G., HÖKELEK T.
VI. International Congress of Molecular Medicine, 22 - 25 May 2017
- XXXIII. **Investigations of antimicrobial activities and DNA interactions of bisferrocenyl-2-trans-6-dispiro-cyclotetra phosphazenes**
çelik s. p., AÇIK L., ELMAS G., KILIÇ Z.
VI. International Congress of Molecular Medicine, 22 - 25 May 2017
- XXXIV. **(4-Florobenzil)Spiro(N/O)siklotrifosfazenyum Tuzlarının Spektroskopik ve Termal Özellikleri, Antimikrobiyal Aktiviteleri ve DNA ile Etkileşimleri**
ELMAS G., OKUMUŞ A., KILIÇ Z., Çelik S. P., AÇIK L.
VI. Ulusal Anorganik Kimya Kongresi (Uluslararası Katılımlı), 18 - 21 May 2017
- XXXV. **Syntheses Structural and Stereogenic Properties of NO Donor Type Mono ferrocenylcyclotetratetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z.
20. The 2nd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2016), 26 - 30 October 2016
- XXXVI. **The syntheses and structural characterizations of 4 fluorobenzylspiro N O cyclotriphosphazenes**
OKUMUŞ A., ELMAS G., KILIÇ Z.
The 2nd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2016), 26 - 30 October 2016
- XXXVII. **Syntheses Spectroscopic and Stereogenic Properties of NO Donor Type Mono ferrocenyl cyclotetraphosphazenes with Diols**
ELMAS G., OKUMUŞ A., KILIÇ Z.
International Congress on Fundamental and Applied Sciences 2016 (ICFAS2016), 22 - 26 August 2016
- XXXVIII. **The Reactions of 4 Fluorobenzylspiro N O cyclotriphosphazene with Mono and Bidentate Ligands Structural Characterizations and Stereogenic Properties**
OKUMUŞ A., ELMAS G., KILIÇ Z.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XXXIX. **The Syntheses and Structural Characterizations Antimicrobial and In vitro DNA Binding of 4 Fluorobenzylspiro N O cylotriphosphazenes and Their Phosphazenum Salts**
ELMAS G., OKUMUŞ A., KILIÇ Z., gönder l. y., AÇIK L., HÖKELEK T.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XL. **The Reactions Spectroscopic and Stereogenic Properties of NO Donor Type Mono ferrocenyl cyclotetraphosphazenes with Monodentate Ligands**
ELMAS G., OKUMUŞ A., KILIÇ Z.
28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016
- XLI. **Antituberculosis Activity of Mono-Ferrocenylspirocyclotetraphosphazenes**
Şimşek H., Binici A., Okumuş A., Elmas G., Cemaloğlu R., Kiliç Z.
37th Congress European Society of Mycobacteriology, Catania, Italy, 3 - 06 July 2016
- XLII. **Mono-Ferrosenilspirosiklotetrafosfazenlerin Antitüberkuloz Aktiviteleri**
hülya ş., arzu b., OKUMUŞ A., ELMAS G., CEMALOĞLU R., KILIÇ Z.
3. Ulusal Klinik Mikrobiyoloji Kongresi, Turkey, 18 - 22 November 2015
- XLIII. **Bis ferrosenil 2 6 dispiro siklotetrafosfazen Türevlerinin Sentezi Spektroskopik Özellikleri ve Kristal Yapıları**

- OKUMUŞ A., ELMAS G., CEMALOĞLU R., KILIÇ Z., HÖKELEK T.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XLIV. **Mono Ferrosenil Spiro Siklotetrafosfazenlerinin Sentezi Karakterizasyonları Elektrokimyasal Özellikleri Antitüberküloz Antimikrobiyal Ve Sitotoksik Aktiviteleri Ve DNA İle Etkileşimleri**
OKUMUŞ A., ELMAS G., CEMALOĞLU R., AYDIN B., KILIÇ Z., HÖKELEK T., AÇIK L., TÜRK M., GÜZEL R., DÜNDAR D.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XLV. **Yeni Monoferrosenil Dispiro Siklotetrafosfazenlerin Sentezi ve Yapılarının Aydınlatılması**
OKUMUŞ A., ELMAS G., CEMALOĞLU R., KILIÇ Z., HÖKELEK T.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XLVI. **Mono Ferrosenil Ansa Spiro Ansa Siklotetrafosfazen Türevlerinin Sentezi Kristal Yapıları Spektroskopik Ve Elektrokimyasal Özellikleri Antitüberküloz Antimikrobiyal Ve Sitotoksik Aktiviteleri Ve Dna İle Etkileşimleri**
ELMAS G., OKUMUŞ A., KOÇ L. Y., SOLTANZADE H., KILIÇ Z., HÖKELEK T., DAL H., AÇIK L., ÜSTÜNDAĞ Z., DÜNDAR D., et al.
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015
- XLVII. **Sytheses Crystal Structures Spectroscopic and Stereogenic Properties Antituberculosis Antimicrobial and Cytotoxic Activities and DNA Interactions of Ansa Spiro Ansa Cyclotetraphosphazenes**
ELMAS G., OKUMUŞ A., KILIÇ Z., KOÇ L. Y., SOLTANZADE H., AÇIK L., HÖKELEK T., DAL H.
International Symposium on Molecular Chemistry, İstanbul, Turkey, 18 - 19 December 2014
- XLVIII. **DNA Interaction and Antimicrobial Activities of Ferrocenyl Cyclotetraphosphazenes**
AYDIN B., AÇIK L., OKUMUŞ A., ELMAS G., KILIÇ Z.
3rd International Molecular Biology and Biotechnology Congress, Sarajevo, Bosnia And Herzegovina, 2 - 06 June 2014
- XLIX. **Dört Dışlı N2O2 Donörlü Bir Ligand ile Tetramerik Fosfazenin Reaksiyonlarının İncelenmesi**
MUTLU G., ELMAS G., KILIÇ Z., HÖKELEK T., AÇIK L., AYDIN B., KOÇ L. Y., DAL H.
IV. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, 30 May - 02 June 2013
- L. **Antimicrobial Activities and DNA Interactions of Spiro ansa spiro and Ansa spiro ansacyclotetraphosphazenes**
AÇIK L., ELMAS G., OKUMUŞ A., KILIÇ Z., ramazanoğlu n., Koç L. Y.
Medicinal and aromatic plants in generating of new values in 21st century, Saraybosna, Bosnia And Herzegovina, 9 - 12 November 2011
- LI. **Tetramerik spiro ansa spiro ve ansa spiro ansa Fosfazen Türevleri**
ELMAS G., OKUMUŞ A., KILIÇ Z., HÖKELEK T., DAL H.
XXIV. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- LII. **Novel Ansa Spiro Ansa Tetrameric Phosphazene Derivatives**
DAL H., ELMAS G., KILIÇ Z., HÖKELEK T.
XII. International Symposium on Inorganic Ring Systems (IRIS-12), GOA, India, 16 August - 21 May 2009
- LIII. **Tetramerik Fosfazen ile N2O2 donörlü Podandları reaksiyonları**
ELMAS G., OKUMUŞ A., KILIÇ Z., DAL H.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009
- LIV. **The synthesis and electrochemical investigations of porphyrino phosphazenes**
HAYVALI M., ELMAS G., KILIÇ Z., SOLAK A. O., ÜSTÜNDAĞ Z.
VIII. International Electrochemistry Meeting, Antalya, Turkey, 8 October - 11 May 2009
- LV. **Yeni Fosfaza Porfirin Bileşiklerin Sentezi**
HAYVALI M., KILIÇ Z., ELMAS G.
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007

Supported Projects

Elmas G., Okumuş A., TUBITAK Project, Monosiklik Ve Köprülü Bisiklik Tetramerik Fosfazen Türevlerinin Karşılaştırmalı Sentezleri: Spektroskopik, Kristallografik Ve Stereojenik özelliklerinin Belirlenmesi, Antiproliferatif Etkilerinin Araştırılması Ve Kanser Kök Hücreleri Ile 3 Boyutlu Tumor Modelleme çalışmaları, 2020 - 2022

Elmas G., Okumuş A., TUBITAK Project, 2-Piridil-Spiro-Siklotrifosfazelerin ve Tuzlarının Klasik ve/veya Mikrodalga Yöntemleri ile Sentezi, Yapılarının Karakterizasyonu, Antimikrobiyal, Antitüberküloz ve Sitotoksik Aktivitelerinin İncelenmesi, 2017 - 2019

Elmas G., Okumuş A., Kılıç Z., TUBITAK Project, N/O Donör Atomlu Ferrosenil Siklotetrafosfazen Türevlerinin Klasik ve Mikrodalga Yöntemleri ile Sentezi, Stereojenik, Termal ve Elektrokimyasal Özelliklerinin Belirlenmesi, Antitüberküloz ve Sitotoksik Aktivitelerinin İncelenmesi, 2016 - 2018

Okumuş A., Elmas G., Project Supported by Higher Education Institutions, Bis Ferrosenil Sübstidue Siklotetrafosfazen Türevlerinin Sentezi Kristal Yapıları Spektroskopik ve Elektrokimyasal Özellikleri ve Biyolojik Aktiviteleri, 2015 - 2017

Elmas G., Okumuş A., Project Supported by Higher Education Institutions, NO Donorlü Mono 4 florobenzil spiro siklotrifosfazen Türevlerinin Sentezi Spektroskopik Özelliklerinin DNA ile Etkileşimlerinin Antimikrobiyal ve Sitotoksik Aktivitelerinin İncelenmesi, 2015 - 2016

Asmafılız N., Kılıç Z., ELMAS G., Project Supported by Higher Education Institutions, 1 Aza 15 crown 5 veya 1 4 Dioksa 8 azaspiro 4 5 deka Sübstidue Mono Bis Ferrosenilfosfazen Türevlerinin Klasik ve Mikrodalga Yöntemleri ile Sentezleri Kristal Yapıları Spektroskopik ve Stereojenik Özellikleri Biyolojik Aktiviteleri ve DNA ile Etkileşimleri, 2012 - 2014

Kılıç Z., TUBITAK Project, N202 Donorlü Simetrik Ligandlar ve Mono Bisferrosenildiaminlerden Oluşan Tetramerik Fosfazen Türevlerinin Klasik ve Mikrodalga Yöntemleri ile Stereokimyasal Kontrollü Sentezleri Kristal Yapıları Spektroskopik Stereojenik ve Elektrokimyasal Özellikleri Biyolojik Aktiviteleri Ve DNA ile Etkileşimleri, 2012 - 2014

OKUMUŞ A., TUBITAK Project, Ferrosenil Fosfazen Türevlerinin Sentezi Kristal Yapıları Spektroskopik ve Stereojenik Özelliklerinin İncelenmesi Biyolojik Aktifliklerinin ve DNA ya Etkilerinin Araştırılması, 2009 - 2011

BİLGE KOÇAK S., TUBITAK Project, Fosfaza ve Diaza Taç Eterlerin Diatomeler Üzerine Etkilerinin Kültür Ortamında ve Taramalı Elektron Mikroskopta İncelenmesi, 2006 - 2010

Scientific Refereeing

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, July 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, March 2023

PHOSPHORUS, SULFUR AND SILICON AND THE RELATED ELEMENTS, SCI Journal, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey,

January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, January 2023

TUBITAK Project, 1002 - Quick Support Program, Ankara University, Turkey, December 2022

TURKISH JOURNAL OF CHEMISTRY, National Scientific Refreed Journal, November 2022

JOURNAL OF THE CHINESE CHEMICAL SOCIETY, SCI Journal, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ankara University, Turkey, October 2022

Inorganic and Nano-Metal Chemistry, SCI Journal, September 2022

TUBITAK Project, 1002 - Quick Support Program, Ankara University, Turkey, September 2022

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, August 2022

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, August 2022

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, August 2022

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, August 2022

Hittite Journal of Science and Engineering, National Scientific Refreed Journal, June 2022

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, May 2022

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, May 2022

Technopark, Ankara University, Turkey, May 2022

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, May 2022

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, May 2022
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, May 2022
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Ankara University, Turkey, May 2022
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, April 2022
CUMHURIYET SCIENCE JOURNAL, National Scientific Refreed Journal, February 2022
TUBITAK Project, 1002 - Quick Support Program, Ankara University, Turkey, January 2022
TUBITAK Project, 1002 - Quick Support Program, Ankara University, Turkey, December 2021
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, Other Indexed Journal, March 2021
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Ankara University, Turkey, May 2019
JOURNAL OF ORGANOMETALLIC CHEMISTRY, SCI Journal, July 2017

Metrics

Publication: 91
Citation (WoS): 415
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H-Index (Scopus): 14