

# **Prof. AYTUĞ OKUMUŞ**

## **Personal Information**

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## **International Researcher IDs**

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Publons / Web Of Science ResearcherID: K-5847-2019

ScopusID: 15045289600

Yoksis Researcher ID: 121454

## **Education Information**

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2007 - 2013

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2003 - 2006

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1998 - 2002

## **Dissertations**

Doctorate, Mono- ve bis- spiro halkalı fosfazen türevlerinin sentezi, stereojenik özelliklerinin, katı hal yapılarının, biyolojik aktivitelerinin ve DNA ya etkilerinin araştırılması, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2013  
Postgraduate, NxOy-(x,y=2,3,...) donorlu podandalar ile trimerik fosfazenin reaksiyonları, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2006

## **Research Areas**

Chemistry, Inorganic Chemistry, Bioinorganic Chemistry, Inorganic Ring Compounds

## **Academic Titles / Tasks**

Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2018 - 2023

Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 2014 - 2018

## **Academic and Administrative Experience**

Teknoloji Transfer Ofisi Koordinatörü, Ankara University, Rektörlük, Teknoloji Transfer Ofisi Koordinatörlüğü, 2023 - Continues

Araştırma Dekan Yardımcılığı, Ankara University, Rektörlük, Araştırma Dekanlığı, 2022 - Continues

## Courses

### Doctorate

Endüstriyel Anorganik Kimya, Doctorate, 2022 - 2023

Endüstriyel Anorganik Kimya, KİMYA ABD, Doctorate, 2019 - 2020

### Undergraduate

Temel Kimya I TOPRAK BİTKİ BESLEME BÖLÜMÜ(I), Undergraduate, 2023 - 2024

Chemistry I, SU ÜRÜNLERİ MÜH., Undergraduate, 2023 - 2024

Temel Kimya I, ZİRAAT FAK. ZOOTEKNİ, Undergraduate, 2021 - 2022

Temel Kimya I, BİYOLOJİ BÖLÜMÜ, Undergraduate, 2020 - 2021

Temel Kimya, Bahçe Bitkileri, Undergraduate, 2018 - 2019

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, August, 2024

Post Graduate, Post Graduate, Ankara Üniversitesi, June, 2024

Associate Professor Exam, Associate Professor Exam, Tarsus Üniversitesi, June, 2024

Post Graduate, Post Graduate, Gazi Üniversitesi, April, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Eskişehir Osmangazi Üniversitesi, March, 2024

Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, January, 2024

Doctorate, Doctorate, Ankara Üniversitesi, January, 2024

Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2023

Post Graduate, Post Graduate, Gazi Üniversitesi, June, 2023

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2022

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2022

Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, May, 2022

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, December, 2021

Post Graduate, Post Graduate, Gazi Üniversitesi, November, 2021

Doctorate, Doctorate, Ankara Üniversitesi, July, 2021

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2021

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, June, 2021

Doctorate, Doctorate, Gebze Teknik Üniversitesi, February, 2021

Doctorate, Doctorate, Gazi Üniversitesi, January, 2021

Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, October, 2020

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, July, 2020

Post Graduate, Post Graduate, Ankara Üniversitesi, October, 2019

Post Graduate, Post Graduate, Ankara Üniversitesi, July, 2019

Post Graduate, Post Graduate, Gazi Üniversitesi, June, 2019

Post Graduate, Post Graduate, Sakarya Üniversitesi, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, October, 2018

Post Graduate, Post Graduate, Ankara Üniversitesi, July, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Phosphorus-nitrogen compounds. Part 77. The synthesis of novel ferrocenyl(N/O)spiro- and 2-<math>\text{cis}</math>-4-dichloro-ferrocenyl(N/O)ansa-cyclotetraphosphazenes with 9-ethyl-3-carbazolyl pendant arm(s): spectral, bioactivity, electrochemical and dye-sensitized solar cell fabrication studies**

- Mutlu G., YAKUT M., OKUMUŞ A., ELMAS G., BİNİCİ A., GÜZEL R., SABAH B. N., AÇIK L., Kılıç Z.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, 2025 (SCI-Expanded)
- II. **Phosphorus-Nitrogen compounds part 74. Syntheses of (p-dimethylamino)benzyl-spiro-(N/N)-cyclotriphosphazenes: Structural characterizations, bioactivity studies, DFT calculations and reactivity parameters**  
İnci Tanrıkuşlu G., Zülfikaroğlu A., ELMAS G., OKUMUŞ A., Kılıç Z., Hökelek T., AÇIK L., Nurjanah D.  
*Inorganica Chimica Acta*, vol.569, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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., Hökelek T., SABAH B. N., AÇIK L., Kılıç Z.  
*JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*, vol.41, no.1, pp.298-318, 2023 (SCI-Expanded)
- VI. **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)
- VII. **Phosphorus-nitrogen compounds: Part 60: Synthesis of hexaminomonoferrocenyl-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)
- VIII. **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., Hökelek T.  
*NEW JOURNAL OF CHEMISTRY*, vol.46, no.38, pp.18384-18401, 2022 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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., Hökelek T.  
*JOURNAL OF THE CHINESE CHEMICAL SOCIETY*, vol.69, no.2, pp.310-331, 2022 (SCI-Expanded)

- XII. **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)
- XIII. **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., Kılıç Z., HÖKELEK T.  
NEW JOURNAL OF CHEMISTRY, vol.45, no.27, pp.12178-12192, 2021 (SCI-Expanded)
- XIV. **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., Kılıç Z., Binici A., Ramazanoglu N., Açık L., Çoşut B., Hökelek T., Güzel R., Tunalı B. Ç., et al.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.4, 2021 (SCI-Expanded)
- XV. **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., Kılıç Z., Ozbeden P., Açık L., 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)
- 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., Kılıç Z.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.543-558, 2020 (SCI-Expanded)
- XVII. **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., Kılıç Z.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.559-573, 2020 (SCI-Expanded)
- XVIII. **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., Kılıç Z.  
INORGANICA CHIMICA ACTA, vol.497, 2019 (SCI-Expanded)
- XIX. **Phosphorus-Nitrogen compounds part 47: The conventional and microwave-assisted syntheses of dispirocyclotriphosphazene derivatives with (4-fluoro/4-nitrobenzyl) pendant arms: Structural and stereogenic properties and DNA interactions**  
Tanrikulu G. I., YAKUT M., OKUMUŞ A., Kılıç Z., HÖKELEK T., AYDIN B., AÇIK L.  
INORGANICA CHIMICA ACTA, vol.490, pp.179-189, 2019 (SCI-Expanded)
- XX. **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., Kılıç Z., Ramazanoglu N., Açık L., 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)
- XXI. **Phosphorus-nitrogen compounds. Part 44. The syntheses of N,N-spiro bridged cyclotriphosphazene derivatives with (4-fluorobenzyl) pendant arms: Structural and stereogenic properties, DNA interactions, antimicrobial and cytotoxic activities**  
Ozturk E., OKUMUŞ A., Kılıç Z., KILIÇ A., Kayalak H., AÇIK L., Cerci N. A., TÜRK M., HÖKELEK T.  
INORGANICA CHIMICA ACTA, vol.486, pp.172-184, 2019 (SCI-Expanded)
- XXII. **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., Kılıç Z., Cam M., AÇIK L., HÖKELEK T.  
INORGANICA CHIMICA ACTA, vol.476, pp.110-122, 2018 (SCI-Expanded)
- XXIII. 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)
- XXIV. 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)
- XXV. Antiproliferative Effects against A549, Hep3B and FL Cell Lines of Cyclotriphosphazene-Based Novel Protic Molten Salts: Spectroscopic, Crystallographic and Thermal Results**  
OKUMUŞ A., AKBAŞ H., KARADAĞ A., AYDIN A., Kılıç Z., HÖKELEK T.  
CHEMISTRYSELECT, vol.2, no.18, pp.4988-4999, 2017 (SCI-Expanded)
- XXVI. The reactions of N3P3Cl<sub>6</sub> 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., Akca G.  
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.4, pp.525-547, 2017 (SCI-Expanded)
- XXVII. 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)
- XXVIII. Phosphorus-nitrogen compounds part 33: in vitro cytotoxic and antimicrobial activities, DNA interactions, syntheses, and structural investigations of new mono(4-nitrobenzyl)spirocyclotriphosphazenes**  
OKUMUŞ A., AKBAŞ H., Kılıç Z., Koc L. Y., AÇIK L., AYDIN B., TÜRK M., HÖKELEK T., DAL H.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.42, no.5, pp.4221-4251, 2016 (SCI-Expanded)
- XXIX. Phosphorus-nitrogen compounds Part 32. Structural and thermal characterizations, antimicrobial and cytotoxic activities, and in vitro DNA binding of the phosphazinium salts**  
AKBAŞ H., OKUMUŞ A., KARADAĞ A., Kılıç Z., HÖKELEK T., Koc L. Y., AÇIK L., AYDIN B., TÜRK M.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.123, no.2, pp.1627-1641, 2016 (SCI-Expanded)
- XXX. Syntheses, structural characterization and biological activities of spiro-ansa-spiro-cyclotriphosphazenes**  
Basterzi N. S., BİLGE KOÇAK S., OKUMUŞ A., Kılıç Z., HÖKELEK T., ÇELİK Ö., TÜRK M., Koc L. Y., AÇIK L., AYDIN B.  
NEW JOURNAL OF CHEMISTRY, vol.39, no.11, pp.8825-8839, 2015 (SCI-Expanded)
- XXXI. 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)
- XXXII. Phosphorus-nitrogen compounds part 27. Syntheses, structural characterizations, antimicrobial and cytotoxic activities, and DNA interactions of new phosphazenes bearing secondary amino and pendant (4-fluorobenzyl)spiro groups**  
AKBAŞ H., OKUMUŞ A., Kılıç Z., HÖKELEK T., SÜZEN Y., Koc L. Y., AÇIK L., Celik Z. B.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.70, pp.294-307, 2013 (SCI-Expanded)
- XXXIII. Biofuel Cell Based on Anode and Cathode Modified by Glucose Oxidase**

- Krikstolaityte V., Oztekin Y., Kuliesius J., Ramanaviciene A., YAZICIGİL Z., ERSÖZ M., OKUMUŞ A., Kausaitė-Minkstimiene A., Kilic Z., Solak A. O., et al.  
ELECTROANALYSIS, vol.25, no.12, pp.2677-2683, 2013 (SCI-Expanded)
- XXXIV. **Syntheses, spectroscopic properties, crystal structures, biological activities, and DNA interactions of heterocyclic amine substituted spiro-ansa-spiro- and spiro-bino-spiro-phosphazenes**  
BİLGE KOÇAK S., Kocoglu S., OKUMUŞ A., Klíc Z., Ozturk A., HÖKELEK T., Oner Y., AÇIK L.  
INORGANICA CHIMICA ACTA, vol.406, pp.160-170, 2013 (SCI-Expanded)
- XXXV. **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., Kiliç Z., Hökelek T., Açık L., Dal H., Ramazanoğlu N., Koç L.  
Inorganic Chemistry, vol.51, no.23, pp.12841-12856, 2012 (SCI-Expanded)
- XXXVI. **Phenanthroline derivatives electrochemically grafted to glassy carbon for Cu(II) ion detection**  
Oztekin Y., Yazicigil Z., Solak A. O., Ustundag Z., OKUMUŞ A., Kilic Z., Ramanaviciene A., Ramanavicius A.  
Sensors and Actuators, B: Chemical, vol.166-167, pp.117-127, 2012 (SCI-Expanded)
- XXXVII. **Phosphorus-nitrogen compounds part 22. Syntheses, structural investigations, biological activities and DNA interactions of new mono and bis (4-fluorobenzyl) spirocyclophosphazenes**  
Okumu A., Kili Z., HÖKELEK T., Dal H., Aik L., Öner Y., Ko L. Y.  
POLYHEDRON, vol.30, no.17, pp.2896-2907, 2011 (SCI-Expanded)
- XXXVIII. **Phosphorus-nitrogen compounds. Part 20: Fully substituted spiro-cyclotriphosphazinic lariat (PNP-pivot) ether derivatives**  
OKUMUŞ A., Bilge S., Kilic Z., Ozturk A., HÖKELEK T., YILMAZ F.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.76, no.3-4, pp.401-409, 2010 (SCI-Expanded)
- XXXIX. **Phosphorus-nitrogen compounds: Part 16. Synthesis, stereogenism, anisochronism and the relationship between  $^{31}\text{P}$  NMR spectral and crystallographic data of monotopic spiro-crypta phosphazene derivatives**  
Kilic Z., OKUMUŞ A., Demiriz S., Bilge S., Ozturk A., Caylak N., HÖKELEK T.  
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.65, no.3, pp.269-286, 2009 (SCI-Expanded)
- XL. **Phosphorus-nitrogen compounds. Part 13. Syntheses, crystal structures, spectroscopic, stereogenic, and anisochronic properties of novel spiro-ansa-spiro-, spiro-bino-spiro-, and spiro-crypta phosphazene derivatives**  
Bilge S., Demiriz S., Okumus A., Kilic Z.  
INORGANIC CHEMISTRY, vol.45, no.21, pp.8755-8767, 2006 (SCI-Expanded)
- XLI. **Crystal Structure of 18,19-Dihydro-8,8-dipyrrolidine-1-yl-6λ<sub>5</sub>,8λ<sub>5</sub>,10λ<sub>5</sub>-6,10-nitrilo-16H,21H-[1,3,5,7,2,4,6] tetrazatriphosphonino[2,1-b:6,7b'] bis[1,3,2] benzoxazaphosphorine**  
Okumuş A.  
Analytical Sciences: X-ray Structure Analysis Online , no.23, pp.121-122, 2006 (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. **Designation of Absolute Configuration of Multiheterocyclic 9,13-dichloro-22,22-dipyrrolidine-1-yl-1H,2H,13H,19H-9,13-(epiazenophosphazeno)-9λ<sub>5</sub>,11λ<sub>5</sub>,13λ<sub>5</sub>-[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)
- III. 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)
- IV. 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)
- V. 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)

## Books

- I. KİMYA 9. SINIF DERS KİTABI  
Okumuş A. (Editor)  
MİLLÎ EĞİTİM BAKANLIĞI YAYINLARI, Ankara, 2024

## Memberships / Tasks in Scientific Organizations

- Ankara Üniversitesi Toplumsal Katkı Koordinasyon Kurulu Üyeliği, Member, 2024 - Continues, Turkey  
Ankara Üniversitesi Teknoloji Geliştirme Bölgesi Yönetici Anonim Şirketi Yönetim Kurulu Üyeliği, Board Member, 2024 - Continues, Turkey  
Ankara Üniversitesi Araştırma Dekanlığı Yönetim Kurulu Üyeliği, Board Member, 2024 - Continues, Turkey  
Ankara Üniversitesi Araştırma Projeleri Destek Ofisi Yürütme Kurulu Üyeliği, Executive Board Member, 2023 - Continues, Turkey  
Ata-Kimya (Journal of Ata-Chem) Dergisi Hakem ve Danışma Kurulu Üyeliği , Member of Advisory Board, 2020 - Continues, Turkey

## Peer Reviews in Scientific Publications

- DYES AND PIGMENTS, SCI Journal, June 2024  
INORGANICA CHIMICA ACTA, SCI Journal, March 2024  
INORGANIC CHEMISTRY, SCI Journal, February 2024  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, January 2024  
Hittite Journal of Science and Engineering, National Scientific Refreed Journal, July 2022  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, June 2022  
Phosphorus, Sulfur, and Silicon and the Related Elements, SCI Journal, June 2022  
Journal of Ata-Chem, National Scientific Refreed Journal, May 2022  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, SCI Journal, March 2022  
CUMHURIYET SCIENCE JOURNAL, National Scientific Refreed Journal, January 2022  
Journal of Ata-Chem, National Scientific Refreed Journal, June 2021  
INORGANICA CHIMICA ACTA, SCI Journal, June 2021  
Journal of the Turkish Chemical Society Section A: Chemistry, National Scientific Refreed Journal, August 2020

INORGANICA CHIMICA ACTA, SCI Journal, April 2020

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, January 2019

Phosphorus, Sulfur, and Silicon and the Related Elements, SCI Journal, December 2018

## Metrics

Publication: 131

Citation (WoS): 885

Citation (Scopus): 916

H-Index (WoS): 22

H-Index (Scopus): 22

## Awards

Okumuş A., Ankara Üniversitesi, Fen Bilimleri Enstitüsü, 2013 Doktora Tezi Yayın Başarı Ödülü, , Ankara Üniversitesi, Fen Bilimleri Enstitüsü, October 2014