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International Researcher IDs

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Education Information

Doctorate, Firat University, Fen Bilimleri, Kimya, Turkey 2010 - 2014

Postgraduate, Firat University, Fen Bilimleri, Kimya, Turkey 2007 - 2009

Undergraduate, Firat University, Faculty Of Arts And Sciences, Kimya, Turkey 2003 - 2007

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, 2,2-Dikloro-4,4,6,6-Bis[Spino(2',2"-Dioksi-1',1"-Bifenilil)] Siklotrifosfazen ile Dihidroksikumarinlerden Elde Edilen Kumarinoksisiklotrifosfazenlerin Sentezi ve Karakterizasyonu, Firat University, Fen Bilimleri, Kimya/Anorganik Kimya, 2011

Postgraduate, Hekza(2-Formil-5-Metoksifenoksi)Siklotrifosfazen'in Schiff Bazı Türevlerinin Sentezi ve Karakterizasyon, Firat University, Fen Bilimleri, Kimya, 2009

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Education, Mathematics and Science Education, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. Integration of X-ray crystallography, density functional theory (DFT), and photophysical studies to understand aggregation-induced enhanced emission (AIEE) in dimethoxy acrylonitrile derivatives

with donor-acceptor and donor-donor structures

Babali Özen L., Yakalı G., Çoban M. B., Özen F., Hür E., Turgut Cin G.

JOURNAL OF MOLECULAR STRUCTURE, vol.1331, pp.141451-141469, 2025 (SCI-Expanded)

- II. **Optimizing 3-MeO-BTFMAN thin films: Structural insights and photonic performance for advanced optoelectronic applications**
Babali Özen L., Yakalı G., Özen F., Ekici Ö., Gündüz B., Turgut Cin G., Aygün M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1333, pp.141793-141807, 2025 (SCI-Expanded)
- III. **Synthesis, Characterization and Calculations of Linear and Nonlinear Optical Properties of Acrylonitrile Substituted Spirocyclotriphosphazene Derivatives**
ÖZEN F.
Journal of Computational Biophysics and Chemistry, vol.22, no.8, pp.1067-1080, 2023 (SCI-Expanded)
- IV. **Investigation of the effect of boron carbide addition on semiconductor zinc oxide nanoparticles on their structural, morphological, and dielectrical properties**
Macit C. K., Gurgenc E., Biryan F., ÖZEN F., Gurgenc T., Ozel C.
Journal of Materials Science: Materials in Electronics, vol.34, no.31, 2023 (SCI-Expanded)
- V. **The Importance of Polymorphism Dependent Aggregation Induced Enhanced Emission of the Acrylonitrile Derivative: Helical J Type and Antiparallel H Type Stacking Modes**
Yakalı G., Çoban M. B., Özen F., Babali Özen L., Gündüz B., Turgut Cin G.
CHEMISTRYSELECT, no.6, pp.11392-11406, 2021 (SCI-Expanded)
- VI. **Investigation of electrical properties of organophosphazene layer based photodiode**
KORAN K., Arif B., Ali D., DERE A., ÖZEN F., Al-Sehemi A. G., Al-Ghamdi A., GÖRGÜLÜ A. O., YAKUPHANOĞLU F.
CHEMICAL PHYSICS, vol.538, 2020 (SCI-Expanded)
- VII. **Fluorescence "Turn On-Off" Sensing of Copper (II) Ions Utilizing Coumarin-Based Chemosensor: Experimental Study, Theoretical Calculation, Mineral and Drinking Water Analysis**
Arslan F. N., Geyik G. A., Koran K., ÖZEN F., Aydın D., Elmas S. N. K., Gorgulu A. O., Yilmaz I.
JOURNAL OF FLUORESCENCE, vol.30, no.2, pp.317-327, 2020 (SCI-Expanded)
- VIII. **Photophysical, photochemical and DNA binding studies of prepared phthalocyanines**
Baran A., Çol S., Karakılıç E., Özen F.
Polyhedron, vol.175, 2020 (SCI-Expanded)
- IX. **Fluorescent sensing platform for low-cost detection of Cu²⁺ by coumarin derivative: DFT calculation and practical application in herbal and black tea samples**
Savran T., Karagoz A., Karuk Elmas S. N., AYDIN D., ÖZEN F., KORAN K., ARSLAN F. N., GÖRGÜLÜ A. O., YILMAZ İ.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.4, pp.1148-1172, 2020 (SCI-Expanded)
- X. **An ultrasensitive and selective 'turn off' fluorescent sensor with simple operation for the determination of trace copper (II) ions in water and various beverage samples**
Elmas S. N. K., Gunay I. B., KORAN K., ÖZEN F., AYDIN D., ARSLAN F. N., GÖRGÜLÜ A. O., YILMAZ İ.
SUPRAMOLECULAR CHEMISTRY, vol.31, no.12, pp.756-766, 2019 (SCI-Expanded)
- XI. **DNA-binding, enzyme inhibition, and photochemical properties of chalcone-containing metallophthalocyanine compounds**
ÖZEN F., Gunel A., Baran A.
BIOORGANIC CHEMISTRY, vol.81, pp.71-78, 2018 (SCI-Expanded)
- XII. **Selective and sensitive fluorescent and colorimetric chemosensor for detection of CO₃²⁻ anions in aqueous solution and living cells**
Elmas S. N. K., ÖZEN F., KORAN K., GÖRGÜLÜ A. O., SADİ G., YILMAZ İ., ERDEMİR S.
TALANTA, vol.188, pp.614-622, 2018 (SCI-Expanded)
- XIII. **Structural, Electrical and Photoresponse Properties of Si-based Diode with Organic Interfacial Layer Containing Novel Cyclotriphosphazene Compound**
TATAROĞLU A., Özen F., Koran K., Dere A., Görgülü A. O., Al-Senany N., Al-Ghamdi A., Farooq W., Yakuphanoglu F.
Silicon, vol.10, no.3, pp.683-691, 2018 (SCI-Expanded)
- XIV. **Design and fabrication of dioxyphenylcoumarin substituted cyclotriphosphazene compounds photodiodes**

Elgazzar E., Dere A., Özen F., Koran K., Al-Sehemi A. G., Al-Ghamdi A. A., Orhan Görgülü A., El-Tantawy F., Yakuphanoglu F.

Physica B: Condensed Matter, vol.515, pp.8-17, 2017 (SCI-Expanded)

- XV. **Coumarin Based Highly Selective "off-on-off" Type Novel Fluorescent Sensor for Cu²⁺ and S²⁻ in Aqueous Solution**
Karuk Elmas A. N., Ozen F., Koran K., Yilmaz I., Gorgulu A. O., Erdemir S.
JOURNAL OF FLUORESCENCE, vol.27, no.2, pp.463-471, 2017 (SCI-Expanded)
- XVI. **Synthesis of 2-(2,3,4-trimethoxyphenyl)-1-(substituted-phenyl)acrylonitriles: in vitro anticancer activity against MCF-7, PC-3 and A2780 cancer cell lines**
Özen F., TEKİN S., Koran K., SANDAL S., Görgülü A. O.
Research on Chemical Intermediates, vol.42, no.12, pp.7793-7805, 2016 (SCI-Expanded)
- XVII. **Eu³⁺-doped chalcone substituted cyclotriphosphazenes: Synthesis, characterizations, thermal and dielectrical properties**
Koran K., Özen F., Biryan F., Demirelli K., Görgülü A. O.
Inorganica Chimica Acta, vol.450, pp.162-169, 2016 (SCI-Expanded)
- XVIII. **Synthesis, structural characterization, and in vitro anti-cancer activities of new phenylacrylonitrile derivatives**
Özen F., TEKİN S., Koran K., SANDAL S., Görgülü A. O.
Applied Biological Chemistry, vol.59, no.2, pp.239-248, 2016 (SCI-Expanded)
- XIX. **Synthesis, structural characterization and dielectric behavior of new oxime-cyclotriphosphazene derivatives**
Koran K., Özen F., Biryan F., Görgülü A. O.
Journal of Molecular Structure, vol.1105, pp.135-141, 2016 (SCI-Expanded)
- XX. **Synthesis, structural characterization and anti-carcinogenic activity of new cyclotriphosphazenes containing dioxybiphenyl and chalcone groups**
Görgülü A. O., Koran K., Özen F., TEKİN S., SANDAL S.
Journal of Molecular Structure, vol.1087, pp.1-10, 2015 (SCI-Expanded)
- XXI. **Synthesis, characterization and dielectric properties of phosphazenes containing chalcones**
Koran K., Özen F., Torğut G., Pihili G., Çil E., Orhan Görgülü A., ARSLAN M.
Polyhedron, vol.79, pp.213-220, 2014 (SCI-Expanded)
- XXII. **Synthesis, characterization, and biological evaluation of new oxime-phosphazenes**
Koran K., Ozkaya A., Ozen F., Cil E., ARSLAN M.
RESEARCH ON CHEMICAL INTERMEDIATES, vol.39, no.3, pp.1109-1124, 2013 (SCI-Expanded)

Articles Published in Other Journals

- Synthesis and Optical Properties of 2-(4-trifluoromethylphenyl)-3-(4-methoxyphenyl) Acrylonitrile (4MPAN-TFMP) Compounds**
Babali Özen L., ÖZEN F., GÜNDÜZ B., TURGUT ÇİN G.
Journal of Physical Chemistry and Functional Materials, vol.7, 2024 (Peer-Reviewed Journal)
- Concentration-Driven Enhancement of Optical Properties in 3MeO-4CIAN for Advanced Photonic Applications**
Babali Özen L., ÖZEN F., TURGUT ÇİN G., GÜNDÜZ B.
NATURENGS MTU Journal of Engineering and Natural Sciences Malatya Turgut Ozal University, 2024 (Peer-Reviewed Journal)
- Metoksi Sübstitüe Kalkon İçeren Metalliftalosiyanin Bileşiklerinin Sentezi ve Karakterizasyonu**
Özen F.
Türk Doğa ve Fen Dergisi, vol.10, no.1, pp.217-223, 2021 (Peer-Reviewed Journal)
- Synthesis of chalcone-containing zinc and cobalt metallophthalocyanines; investigation of their photochemical, DPPH radical scavenging and metal chelating characters**

Baran A., Karakilic E., FAİZ Ö., Ozen F.

ORGANIC COMMUNICATIONS, vol.13, no.2, pp.65-78, 2020 (ESCI)

- V. **2,2-Bis(2-Formilfenoksi)-4,4,6,6-Bis(Spiro(2',2''-Dioxy-1',1''-Bifenilil))Siklotrifosfazenin Schiff Bazı Türevlerinin Sentezi ve Karakterizasyonu**
GÖRGÜLÜ A. O., Yılmaz m., ÖZEN F., KORAN K.
Firat Univ. Journal of Science, vol.26, pp.125-131, 2014 (Peer-Reviewed Journal)
- VI. **Hekza-(2-Formil-5-Metoksifenoksi)Siklotrifosfazen'in Schiff Bazı Türevlerinin Sentezi ve Karakterizasyonu**
ÖZEN F., KORAN K., ASLAN F., ARSLAN M.
EUROPEAN JOURNAL OF SCIENCE AND THEOLOGY, vol.1, pp.69-75, 2014 (Scopus)

Papers Published in Refereed Scientific Meetings

- I. **Synthesis, Characterization and Photophysical Properties Of 2-(4-Methylphenyl)-3-(4-Methoxyphenyl) Acrylonitrile Compound**
Özen F.
PCFM 2021, Elazığ, Turkey, 8 - 09 April 2021, pp.221
- II. **A Novel colorimetric and fluorescence chemosensor based on coumarine derivate for the determination of copper(II) ion**
KARUK Ş. N., GÜNAY İ. B., ÖZEN F., KORAN K., GÖRGÜLÜ A. O., YILMAZ İ.
1 st International Congress on Analytical and Bioanalytical Chemistry, Antalya, Turkey, 27 - 30 March 2019
- III. **SYNTHESIS AND CHARACTERIZATION OF 4-(TERT-BUTYL)PHENOXY SUBSTITUTED METALLOPHTHALOCYANINE COMPOUND**
ÖZEN F.
The International Conference on Physical Chemistry and Functional Materials (PCFM'xx18), 19 - 21 June 2018
- IV. **Coumarin Based Turn-off Fluorescent Chemosensor for the Selective and Sensitive Determination of Cu(II) Ions**
KARUK Ş. N., ÖZEN F., KORAN K., GÖRGÜLÜ A. O., YILMAZ İ.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in ÇEŞME/İZMİR (IMSMATEC'18), İzmir, Turkey, 10 - 12 April 2018, pp.530
- V. **Antrasen Grupları İçeren Kalkon Süstitüe Siklotrifosfazen Bileşiklerinin Sitotoksisite ve Genotoksisite Özelliklerinin Araştırılması**
KORAN K., ÖZEN F., TEKİN S.
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 22 - 25 March 2018, pp.84
- VI. **Selective and Sensitive Fluorescent Turn On Chemosensor For Detection of CO₃²⁻ Anions In Aqueous Solution**
KARUK Ş. N., ÖZEN F., KORAN K., GÖRGÜLÜ A. O., ERDEMİR S., YILMAZ İ.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.777
- VII. **A Dual-Response Coumarine-Based Fluorescent Chemosensor For The Detection of Copper (II) Ions**
KARUK Ş. N., AYDIN K., ÖZEN F., KORAN K., GÖRGÜLÜ A. O., YILMAZ İ.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), October 11-13, Nevşehir, Turkey, 11 - 13 October 2017, pp.789
- VIII. **Organic photodetector applications of 2,2-Bis[spiro(7,8-dioxy-4-methylcoumarin)]-4,4,6,6,-bis[spiro(2',2''-dioxy-1',1''-biphenyl)] cyclotriphosphazene compound**
ÖZEN F., DERE A., KORAN K., YAKUPHANOĞLU F., GÖRGÜLÜ A. O.
2st International Conference on Organic Electronic Material Technologies (OEMT 2016), 25 - 28 April 2016
- IX. **Synthesis and Photodiode Applications of Cyclotriphosphazene Compound Bearing 7,8-Dihydroxy-3-(3-methylphenyl)Coumarin Groups"**

- ÖZEN F., DERE A., KORAN K., YAKUPHANOĞLU F., GÖRGÜLÜ A. O.
2st International Conference on Organic Electronic Material Technologies (OEMT 2016), 25 - 28 April 2016
- X. **Synthesis and Optoelectronic Device Properties of 2,2,4,4-Bis[spiro(7,8-Dioxy-3-(3-methylphenyl)-2H-chromen-2-one]-4,4,6,6-bis[spiro(2',2''-dioxy-1',1''-biphenyl)]Cyclotriphosphazene Compound**
ÖZEN F., DERE A., KORAN K., YAKUPHANOĞLU F., GÖRGÜLÜ A. O.
2st International Conference on Organic Electronic Material Technologies (OEMT 2016), 25 - 28 April 2016
- XI. **Determination of Cytotoxicity Properties of New Synthesized Phenylacrylonitrile Derivatives on Human Ovarian Cancer Cells**
ÖZEN F., TEKİN S., KORAN K., SANDAL S., GÖRGÜLÜ A. O.
3rd International BAU drug design congress, 1 - 03 October 2015
- XII. **A new "turn off" fluorescent sensor for copper (II) ion based 6,7-Dihidroxy-3-(3-chlorofenyl) Coumarin**
KARUK Ş. N., ÖZEN F., KORAN K., YILMAZ İ., GÖRGÜLÜ A. O.
18th Edition of Euro Analysis The European Conference on Analytical Chemistry, 6 - 10 September 2015
- XIII. **Characterization and Investigation of Dielectric Properties of New Cyclotriphosphazene Compounds Bearing Oxime Ether**
BİRYAN F., KORAN K., ÖZEN F., GÖRGÜLÜ A. O.
1st International Conference on Organic Electronic Material Technologies (OEMT 2015), 25 - 28 March 2015
- XIV. **Synthesis, Characterization and Dielectric Properties of 2,2-Dichloro-4,4,6,6-Bis[Spino(2'xx,2'xx'xx-Dioxy-1'xx,1'xx'xx-Biphenyl)]Cyclotri-phosphazene Bearing Oxime Ester**
BİRYAN F., ÖZEN F., KORAN K., GÖRGÜLÜ A. O.
1st International Conference on Organic Electronic Material Technologies (OEMT 2015), 25 - 28 March 2015
- XV. **Comparison of Fluorescence Properties of Microwave-Assisted New Synthesized Arylacrylonitrile, Dihydroxycoumarine and Phosphazene**
KORAN K., ÖZEN F., ARSLAN M., GÖRGÜLÜ A. O.
XVI International Symposium on Luminescence Spectrometry (ISLS-2014), 24 September - 27 June 2014
- XVI. **Fluorescence Properties of New Synthesized Dihydroxycoumarin and Related Compounds**
ÖZEN F., KORAN K., ARSLAN M., GÖRGÜLÜ A. O.
International Conference on Pure and Applied Chemistry Crystallising Ideas: The Role of Chemistry, 23 - 27 June 2014
- XVII. **Fluorescence Properties of Microwave-Assisted New Synthesized Dihydroxycoumarin and Related Compounds, Challenges to Open up The New Era of Organic Photonics and Electronics from Material to Market-from Asian Perspective**
KORAN K., ÖZEN F., ARSLAN M., GÖRGÜLÜ A. O.
XVth International Krutyń Summer School, 8 - 14 June 2014
- XVIII. **Determination of Cytotoxicity Properties of Novel Synthesized Phosphazenes on Human Prostate Cancer Cell**
KORAN K., ÖZEN F., TEKİN S., SANDAL S., GÖRGÜLÜ A. O.
2nd International BAU Drug Design Congress, 17 - 19 April 2014
- XIX. **Determination of Anti-Carcinogenic Properties of Synthesized Phenylacrylonitriles on Human Breast Cancer Cell Line: An In Vitro Study**
ÖZEN F., TEKİN S., KORAN K., SANDAL S., GÖRGÜLÜ A. O.
2nd International BAU Drug Design Congress, 17 - 19 April 2014
- XX. **In Vitro Study of New Synthesized Dihydroxyphenylcoumarines on Human Breast Cancer Cell Line"**
TEKİN S., KORAN K., ÖZEN F., SANDAL S., GÖRGÜLÜ A. O.
2nd International BAU Drug Design Congress, 17 - 19 April 2014
- XXI. **Microwave-Assisted Synthesis and Characterization of 6,7 and 7,8-Dihydroxycoumarins**
ÖZEN F., KORAN K., ARSLAN M., GÖRGÜLÜ A. O.
14th Tetrahedron Symposia, Asian Edition, Challenges Inorganic and Bioorganic Chemistry, 21 - 24 October 2013
- XXII. **2,2-Bis(4-Asetilfenoksi)-4,4,6,6-Bis[Spino(2'xx,2'xx'xx-Dioksi-1'xx,1'xx'xx-Bifenilil)]Siklotrifosfazen'in Açıl Süstitüe Oksim Türevleri**

- TURAN G., ASİLTÜRK E., ÖZEN F., YILMAZ M., ARSLAN M.
II. Ulusal Anorganik Kimya Kongresi, Turkey, 16 - 19 May 2009
- XXIII. **Hekza(2-Formil-Fenoksi)Siklotrifosfazenin Schiff Bazı Türevlerinin Sentezi ve Floresans Özelliklerinin İncelenmesi**
ÖZTÜRK A. İ., ASLAN F., ALĞIN M., ÖZEN F., ARSLAN M.
II. Ulusal Anorganik Kimya Kongresi, Turkey, 16 - 19 May 2009
- XXIV. **2,2-Bis(4-Formil-3-Nitrofenoksi)-4,4,6,6-Bis[Spino(2'xx,2'xx'xx-Dioksi-1'xx,1'xx'xx-Bifenilil)Siklotrifosfazen'in Aromatik Aminlerle Reaksiyonları**
DAYAN S., ÖZEN F., KORAN K., ŞAHİN M. E., TAŞKIRAN C., TAŞDEMİR M., ARSLAN M.
II. Ulusal Anorganik Kimya Kongresi, Turkey, 16 - 19 May 2009
- XXV. **Hekza(2-Formil-5-Metoksi-Fenoksi)Siklotri-Fosfazenin Schiff Bazı Türevlerinin Sentezi**
ÖZEN F., ASLAN F., KORAN K., ŞAHİN M. E., ARSLAN M.
II. Ulusal Anorganik Kimya Kongresi, Turkey, 16 - 19 May 2009
- XXVI. **N-(5-Propil-1,3,4-Tiyadiazol-2-İl)Salisilaldehit İmin Ligandı ve Geçiş Metal Komplekslerinin Sentezi**
ÖZEN F., GÖRGÜLÜ A. O.
II. Ulusal Anorganik Kimya Kongresi, Turkey, 16 - 19 May 2009
- XXVII. **N-[5-Alkil-1,3,4-Tiyadiazol-2-yl]-Ditiyokarbomat'ın Sentezi ve Geçiş Metal Kompleksleri**
ÖZ F., ÖZEN F., GÖRGÜLÜ A. O.
I. Ulusal Anorganik Kimya Günleri, Turkey, 20 - 23 April 2007
- XXVIII. **Hekzakis(4-[(1)-N-Hidroksietanimidoil]Fenoksi) Siklotrifosfazen'in Allil Bromür ile Reaksiyonu**
ARSLAN M., ASİLTÜRK E., ÖZEN F., YILMAZ M.
I. Ulusal Anorganik Kimya Günleri, Turkey, 20 - 23 April 2007
- XXIX. **Oksim Eter ve Esterleri Taşıyan Siklofosfazenlerin Sentezi ve Karakterizasyonu**
ASİLTÜRK E., ARSLAN M., ÖZEN F., YILMAZ M.
I. Ulusal Anorganik Kimya Günleri, Turkey, 20 - 23 April 2007

Supported Projects

Özen F., Turgut Cin G., Yakalı G., Babalı Özen L., Project Supported by Higher Education Institutions, Dimetoksi Sübtitüe Akrilonitril Türevlerinin Sentezi, Katı Faz Optoelektronik Özelliklerinin Teorik, Kristalografik ve Fotofiziksel Çalışmalarla Analizi, 2021 - 2023

ÖZEN F., TURGUT CİN G., Babalı Özen L., GÜNDÜZ B., Project Supported by Higher Education Institutions, Akrilonitril Sübtitüe Siklotrifosfazenlerin Sentezi Karakterizasyonu Fotofiziksel Özelliklerinin İncelenmesi, 2020 - 2023

Özen F., Turgut Cin G., Gündüz B., TÜBİTAK Project, Yeni Akrilonitril Sübtitüe Siklotrifosfazenlerin Sentezi, Karakterizasyonu, Foto-fiziksel Özelliklerinin Araştırılması ve Geliştirilmesi: Aygıtların Üretimi, 2020 - 2022

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