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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: E-7489-2013

Yoksis Researcher ID: 116133

Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1996 - 2003

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1993 - 1996

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1986 - 1992

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı organik kristallerin molekül yapılarının ve moleküler özelliklerinin x-ışınları kırınımı ve kuantum mekaniksel hesaplama yöntemleri ile incelenmesi, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2003

Postgraduate, Geçirme x ışınları toz kırınım metresi için yüksek sıcaklık (293-1023 K) fırın tasarımı ve C₁₉H₂₈O₂, C₁₃H₈CINO₂Ni₆H₁₃N tek kristallerinin yapı analizleri, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1996

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Structure of Liquids and Solids; Crystallography, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2013 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2008 - 2013

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1993 - 2008

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2016 - Continues

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nükleer Enerji Mühendisliği (YL) (Tezli), 2012 - 2013

Advising Theses

Kaynak F. B., Antikanser aktiviteye sahip kondanse triazol türevlerinin kristal yapılarının X-ışını toz kırınımı yöntemiyle belirlenmesi, Doctorate, G.GÜNDOĞDU(Student), 2018

Kaynak F. B., Elektrokimyasal yöntemle grafen nanoşerit esaslı cam fiber-karbon platform üzerinde triklosan tayini, Postgraduate, S.AĞA(Student), 2018

Kaynak F. B., Galyum katkılı çinko oksit ince filmlerin karakterizasyonu ve üretim parametrelerinin ince filmlere olan etkilerinin incelenmesi, Postgraduate, E.KAHVECİ(Student), 2017

Kaynak F. B., 2-pirazolin ve hidrazon yapısı içeren bazı organik moleküllerin yapılarının x-ışını kristalografisi ve kuramsal hesaplama yöntemleriyle incelenmesi, Postgraduate, E.DEDECENGİZ(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, characterization, and MAO inhibitory activities of three new drug-like N-acylhydrazone derivatives**
TAŞCI H., HÖKELEK T., SAĞLIK ÖZKAN B. N., KAYNAK F. B., TOZKOPARAN KÖPRÜCÜ B., GÖKHAN KELEKÇİ N.
JOURNAL OF MOLECULAR STRUCTURE, 2024 (SCI-Expanded)
- II. **New 2-Pyrazoline and Hydrazone Derivatives as Potent and Selective Monoamine Oxidase A Inhibitors.**
Salgin-Goksen U., Telli G., Erikci A., Dedecengiz E., Tel B. C., Kaynak F. B., Yelekçi K., Uçar G., Gökhan Kelekçi N.
Journal of medicinal chemistry, vol.64, no.4, pp.1989-2009, 2021 (SCI-Expanded)
- III. **Synthesis and structural characterization of 3-[1-[4-(2-methylpropyl)phenyl] ethyl]-6-(4-fluorophenyl)-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazole**
Gundogdu G., KARAYEL A., AYTAÇ S. P., TOZKOPARAN KÖPRÜCÜ B., KAYNAK F. B.
POWDER DIFFRACTION, vol.34, no.4, pp.325-330, 2019 (SCI-Expanded)
- IV. **Discovery of new azoles with potent activity against Candida spp. and Candida albicans biofilms through virtual screening**
SARI S., KART D., Ozturk N., KAYNAK F. B., Gencil M., Taskor G., KARAKURT A., Sarac S., Essiz S., DALKARA S.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.179, pp.634-648, 2019 (SCI-Expanded)
- V. **Synthesis and anticonvulsant screening of 1,2,4-triazole derivatives**
SARI S., KAYNAK F. B., DALKARA S.
Pharmacological Reports, vol.70, no.6, pp.1116-1123, 2018 (SCI-Expanded)
- VI. **Structure elucidation of 3-[1-(6-methoxy-2-naphthyl)ethyl]-6-(2,4-dichlorophenyl)-7H-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazine, C₂₃H₁₈Cl₂N₄O₂ from synchrotron X-ray powder diffraction**
GÜNDOĞDU G., AYTAÇ S. P., MELANİE M., TOZKOPARAN B., KAYNAK F. B.
Powder Diffraction, vol.34, pp.271-278, 2017 (SCI-Expanded)
- VII. **Structure determination of two structural analogs, named 3-[1-(2-fluoro-4-biphenyl)ethyl]-6-(4-fluorophenyl)-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazole (C₂₃H₁₆F₂N₄S) and 3-[1-(2-fluoro-4-biphenyl)ethyl]-6-(4-chlorophenyl)-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazole (C₂₃H₁₆ClF₂N₄S) by synchrotron X-ray powder diffraction**
GÜNDOĞDU G., AYTAÇ S. P., MELANİE M., TOZKOPARAN B., KAYNAK F. B.
Powder Diffraction, vol.32, pp.279-289, 2017 (SCI-Expanded)
- VIII. **Combined spectroscopic, XRD crystal structure and DFT studies on 2-(ethylthio)pyrimidine-4,6-diamine**
AKTAN E., Babur B., SEFEROĞLU N., ÇATIKKAŞ B., KAYNAK F. B., SEFEROĞLU Z.
JOURNAL OF MOLECULAR STRUCTURE, vol.1145, pp.152-159, 2017 (SCI-Expanded)

- IX. **New Anti-Seizure (Arylalkyl)azole Derivatives: Synthesis, In Vivo and In Silico Studies**
SARI S., DALKARA S., KAYNAK F. B., REYNISSON J., Sarac S., KARAKURT A.
ARCHIV DER PHARMAZIE, vol.350, no.6, 2017 (SCI-Expanded)
- X. **New (arylalkyl)azole derivatives showing anticonvulsant effects could have VGSC and/or GABA(A)R affinity according to molecular modeling studies**
SARI S., KARAKURT A., USLU H., KAYNAK F. B., Calis U., DALKARA S.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.124, pp.407-416, 2016 (SCI-Expanded)
- XI. **Crystal structure determination of two novel 1,2,4-triazolo[3,4-b]-1,3,4-thiadiazine and -thiadiazole derivatives by XRPD method**
KAYNAK F. B., Gundogdu G., Muller M., ÖZBEY S.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.72, 2016 (SCI-Expanded)
- XII. **Purification, structural characterization and homology modeling of a novel neurotoxic peptide (Acra3) from the scorpion Androctonus crassicauda**
ÖZBEY S., KOÇAK D., KAYNAK F. B., ÇALIŞKAN F.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.71, 2015 (SCI-Expanded)
- XIII. **Three novel compounds of 5-trifluoromethoxy-1H-indole-2,3-dione 3-thiosemicarbazone: Synthesis, crystal structures and molecular interactions**
KAYNAK F. B., ÖZBEY S., Karali N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1049, pp.157-164, 2013 (SCI-Expanded)
- XIV. **Hetarylazoindoles 2. Spectroscopic and structural investigation of new benzothiazolylazo indole dyes**
Seferoglu Z., KAYNAK F. B., Ertan N., ÖZBEY S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1047, pp.22-30, 2013 (SCI-Expanded)
- XV. **Synthesis of 3,6-disubstituted 7H-1,2,4-triazolo[3,4-b]-1,3,4-thiadiazines as novel analgesic/anti-inflammatory compounds**
AYTAÇ S. A., Tozkoparan B., KAYNAK F. B., Aktay G., Goektas O., Uenuvar S.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.44, no.11, pp.4528-4538, 2009 (SCI-Expanded)
- XVI. **The Ambiguous Solutions from Different Automatic Structure Solution Programs**
KAYNAK F. B., Eriksson L.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (SCI-Expanded)
- XVII. **Synthesis of highly functionalized BEDT-TTF analogues incorporating 1,4-dithiin rings from 1,8-diketones**
ERTAS E., KAYNAK F. B., ÖZBEY S., Osken I., Öztürk T.
TETRAHEDRON, vol.64, no.46, pp.10581-10589, 2008 (SCI-Expanded)
- XVIII. **Molecular structure of 2-methylamino-5-[(5-methyl-2-benzoxazolinone-3-yl)methyl]-1,3,4-thiadiazole dihydrophosphate: a combined X-ray crystallographic and ab initio study**
KAYNAK F. B., Eriksson L., Salgin-Goksen U., GÖKHAN KELEKÇİ N.
STRUCTURAL CHEMISTRY, vol.19, no.5, pp.757-764, 2008 (SCI-Expanded)
- XIX. **Synthesis and crystal structure of 1-benzyl-2-(4-benzyloxyphenyl)-5,6-dichloro-1H-benzimidazole**
KAYNAK F. B., ÖZBEY S., Tuncbilek M., Alp M.
STRUCTURAL CHEMISTRY, vol.19, no.3, pp.477-480, 2008 (SCI-Expanded)
- XX. **Synthesis and antioxidant properties of novel N-methyl-1,3,4-thiadiazol-2-amine and 4-methyl-2H-1,2,4-triazole-3(4H)-thione derivatives of benzimidazole class**
Kus C., Ayhan-Kilcigil G., ÖZBEY S., KAYNAK F. B., Kaya M., Coban T., Can-Eke B.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.16, no.8, pp.4294-4303, 2008 (SCI-Expanded)
- XXI. **2-[2-(p-Chlorophenyl)benzimidazol-1-ylmethyl]5-(2-fluoroanilino)-1,3,4-thiadiazole**
KAYNAK F. B.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.63, 2007 (SCI-Expanded)
- XXII. **Design and synthesis of some new thiazolo[3,2-b]-1,2,4-triazole-5(6H)-ones substituted with flurbiprofen as anti-inflammatory and analgesic agents**
DOĞDAŞ E., TOZKOPARAN B., KAYNAK F. B., ERİKSSON L., KUPELI E., YEŞİLADA E., Ertan M.

- ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, vol.57, no.4, pp.196-202, 2007 (SCI-Expanded)
- XXIII. **Design and synthesis of some new thiazolo[3,2-b]-1,2,4-triazole-5(6H)-ones substituted with flurbiprofen as anti-inflammatory and analgesic agents**
DOĞDAŞ E., Tozkoparan B., Kaynak F. B., ERİKSSON L., KUPELI E., YESILADA E., Ertan M.
ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH, vol.57, no.4, pp.196-202, 2007 (SCI-Expanded)
- XXIV. **Crystal Structures and Interactions in Packing of Novel Thiadiazolyl - and Triazolyl-benzimidazole Derivatives**
KAYNAK F. B., ÖZBEY S., KILCIGİL G., KUŞ C.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (SCI-Expanded)
- XXV. **Synthesis and characterization of $Sr_{0.75}Y_{0.25}C_{1-x}M_xO_{2.625+\delta}$ ($M = Ga, 0.125 \leq x \leq 0.500$ and $M = Fe, 0.125 \leq x \leq 0.875$)**
Lindberg F., Drozhzhin O. A., Istomin S. Y., Svensson G., KAYNAK F. B., Svedlindh P., Warnicke P., Wannberg A., Mellergard A., Antipov E. V.
JOURNAL OF SOLID STATE CHEMISTRY, vol.179, no.5, pp.1434-1444, 2006 (SCI-Expanded)
- XXVI. **C - H center dot center dot center dot F, N / C - H center dot center dot center dot S and C - H center dot center dot center dot pi interactions in 5-fluoro-1H-indole-2,3-dione-3-thiosemicarbazones**
ÖZBEY S., KAYNAK F. B., Eriksson L., Karali N., Gursoy A.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.62, 2006 (SCI-Expanded)
- XXVII. **3,4-Bis[(4-methoxybenzoyl)methyl-sulfanyl]thiophene**
Ozbey S., KAYNAK F. B., ERTAS E. S., OZTURK T.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.61, 2005 (SCI-Expanded)
- XXVIII. **New N'-alkylidene/cycloalkylidene derivatives of 5-methyl-3-phenyl-1H-indole-2-carbohydrazide: synthesis, crystal structure, and quantum mechanical calculations**
KAYNAK F. B., OZTURK D., Ozbey S., CAPAN G.
JOURNAL OF MOLECULAR STRUCTURE, vol.740, pp.213-221, 2005 (SCI-Expanded)
- XXIX. **Synthesis and crystal structure elucidation of 1-(4-fluorobenzyl)-2-(4-cyanophenyl)-1H-benzimidazole-5-carbonitrile**
Ozbey S., KAYNAK F. B., GOKER H., KUS C.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.34, no.12, pp.851-858, 2004 (SCI-Expanded)
- XXX. **Synthesis of chiral crown ethers and complexation with chiral protonated amine compounds: X-ray crystal and nuclear magnetic resonance studies of perchlorate salt of chiral benzo-monoaza-15-crown-5 and chiral monoaza-15-crown-5**
TOGRUL M., DEMIREL N., KAYNAK F. B., Ozbey S., HOSGOREN H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.50, pp.165-171, 2004 (SCI-Expanded)
- XXXI. **Ethyl (3-ethyl-1-oxo-1,2,3,4-tetrahydrocarbazol-2-yl)acetate**
KAYNAK F. B., Ozbey S., ULUDAG N., PATIR S.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XXXII. **Saligenin derivative borocryptands: synthesis and structural analysis of new type lithium borocryptate**
TOGRUL M., SUNKUR M., KAYNAK F. B., HOSGOREN H., Ozbey S.
JOURNAL OF CHEMICAL RESEARCH-S, no.10, pp.605, 2003 (SCI-Expanded)
- XXXIII. **2-Trichloroacetyl-1-(1-pyrrolidinyl)cyclopentene**
KAYNAK F. B., ÖZBEY S., Senoz H., TUNOGLU N.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.59, 2003 (SCI-Expanded)
- XXXIV. **Crystal structure of $\{[\mu\text{-bis}(\text{salicylidene})\text{-1,3-propanediaminato}]\text{-copper(II)}\}\text{dibromozinc(II)}$**
Ulku D., KAYNAK F. B., Atakol O., Aksu M.
ANALYTICAL SCIENCES, vol.19, no.5, pp.799-800, 2003 (SCI-Expanded)
- XXXV. **Synthesis of R(-)-2-ethyl-N-benzyl (benzo-monoaza-15-crown-5) and the crystal structure of its sodium perchlorate complex**
Ozbey S., KAYNAK F. B., Togrul M., Demirel N., Hosgoren H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.45, pp.123-128, 2003 (SCI-Expanded)

- XXXVI. **Crystal structures of N-(trichloroacetyl)morpholine and 2,6-di(trichloroacetyl)cyclohexanone**
OZBEY S., KAYNAK F. B., Senoz H., TUNOGLU N.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE, vol.218, no.6, pp.440-444, 2003 (SCI-Expanded)
- XXXVII. **Crystal structure of an inclusion complex between chiral monoaza-15-crown-5 and S(-)-1-phenyl-ethyl ammonium perchlorate**
Ozbey S., KAYNAK F. B., TOGRUL M., DEMIREL N., HOSGOREN H.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE, vol.218, no.5, pp.381-384, 2003 (SCI-Expanded)
- XXXVIII. **2-(2,4-Dichlorophenyl)-5-fluoro-6-morpholin-4-yl-1H-benzimidazole monohydrate**
Ozbey S., KAYNAK F. B., KUS C., GOKER H.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.58, 2002 (SCI-Expanded)
- XXXIX. **{[μ -Bis(salicylidene)-1,3-propanediaminato]-bis(3,5-dimethylpyridine)-nickel(II)}dibromozinc(II)**
Ulku D., KAYNAK F. B., Atakol O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.58, 2002 (SCI-Expanded)
- XL. **5,6-Diphenylthieno[2,3-d][1,3]-dithiole-2-thione**
KAYNAK F. B., Ozbey S., OZTURK T., ERTAS E. S.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.57, pp.1125-1126, 2001 (SCI-Expanded)
- XLI. **5,6-diphenyl[1,3]dithiolo[4,5-b]dithiine-2-thione**
KAYNAK F. B., Ozbey S., OZTURK T., ERTAS E. S.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.57, pp.926-928, 2001 (SCI-Expanded)
- XLII. **5-Benzyl-5-phenyl[1,3]dithiolo[4,5-d]-[1,3]dithiole-2-thione**
KAYNAK F. B., Ozbey S., OZTURK T., ERTAS E. S.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.57, pp.319-320, 2001 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- Crystal structure determination of two novel 1,2,4-triazolo[3,4-b]1,3,4-thiazdiazine and thiadiazole derivatives by XRPD method**
KAYNAK F. B., GÜNDOĞDU G., MÜLLER M., ÖZBEY S.
30 th European Crystallographic Meeting, Basel, Switzerland, 28 August - 01 September 2016, vol.72, pp.359

Supported Projects

KAYNAK F. B., Project Supported by Higher Education Institutions, "30. Avrupa Kristalografisi Kongresi" ne Katılım, 2016 - 2016

KAYNAK F. B., Kahveci E., Gündoğdu G., Project Supported by Higher Education Institutions, Galyum Katkılı Çinko Oksit (ZnO) İnce Filmlerin Yapısal Karakterizasyonu, 2016 - 2016

KAYNAK F. B., Project Supported by Higher Education Institutions, Analjezik ve Antiinflamatuvar Etki Gösteren Bazı Bileşiklerde Moleküler Modelleme, 2015 - 2016

KAYNAK F. B., Project Supported by Higher Education Institutions, "29. AVRUPA KRİSTALOGRAFİ TOPLANTISI" NA KATILIM, 2015 - 2015

Metrics

Publication: 43

Citation (WoS): 428

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H-Index (WoS): 10

H-Index (Scopus): 10

Non Academic Experience

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