

## **Prof. KEMAL SANCAK**

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### **Research Areas**

Chemistry, Organic Chemistry, Chemistry of Dyes and Pigments, Chemistry of Heterocyclic Compounds, Organic Spectroscopy, Natural Sciences

### **Advising Theses**

SANCAK K., Tyazol türevi iyonik sıvılar, Doctorate, G.Gül(Student), 2017

SANCAK K., Click kimyası 1,2,3-triazollerin sentezi, Postgraduate, F.Aliyeva(Student), 2016

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

- I. **Characterization and rheological behavior of asphalt binder modified by a novel cyclic borate ester additive**  
ORUÇ Ş., Yılmaz B., SANCAK K.  
Construction and Building Materials, vol.348, 2022 (SCI-Expanded)
- II. **The Synthesis of 1,3-Thiazolium Ionic Liquids Combined with 1,2,4-Triazole-5-One by Different Synthetic Pathways**  
Kilinc G. G., SANCAK K.  
LETTERS IN ORGANIC CHEMISTRY, vol.18, no.12, pp.1012-1024, 2021 (SCI-Expanded)
- III. **New 1,3,4-thiadiazol derivatives: Synthesis, computational study and X-Ray**  
Unluer D., Dugdu E., Emirik M., ŞAHİN O., ÜNVER Y., SANCAK K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1207, 2020 (SCI-Expanded)
- IV. **Synthesis, electrochemical and spectroelectrochemical properties of novel soluble peripheral tetra triazole substituted Co-II, Cu-II, (MnCl)-Cl-III and (TiO)-O-IV phthalocyanines**  
YALAZAN H., Akyuz D., UNLUER D., KOCA A., KANTEKİN H., SANCAK K.  
POLYHEDRON, vol.180, 2020 (SCI-Expanded)
- V. **Synthesis and characterization of metallophthalocyanine with morpholine containing Schiff base and determination of their antimicrobial and antioxidant activities**  
UNLUER D., Kamiloglu A. A., Direkeli S., Bektas E., KANTEKİN H., SANCAK K.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.900, 2019 (SCI-Expanded)
- VI. **Synthesis, characterization and DNA interaction properties of the novel peripherally tetra 4-(3-methyl-1-4-(3-morpholinopropyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl) substituted water soluble Zn(II) and Cu(II) phthalocyanines**  
DEMİRBAŞ Ü., Barut B., ÖZEL A., ÇELİK F., KANTEKİN H., SANCAK K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1177, pp.571-578, 2019 (SCI-Expanded)
- VII. **Molecular Conformational Analysis, Spectroscopic Characterization, Intramolecular Hydrogen Bonding and Natural Bond Analysis of (E,Z)-2-(4-Amino-5-oxo-3-(thiophene-2-ylmethyl)-4,5-**

- dihydro-1,2,4-triazole-1-yl)-N'-(thiophene-2-ylmethylene) Acetohydrazide**  
ATALAY A., ÇELİK F., ÜNVER Y., SANCAK K., KAYGUSUZ K.  
LETTERS IN ORGANIC CHEMISTRY, vol.16, no.3, pp.215-225, 2019 (SCI-Expanded)
- VIII. **Synthesis, Characterization and Biological Activities of New Symmetric Bis-1,2,3-Triazoles with Click Chemistry**  
ÇELİK F., ÜNVER Y., Barut B., ÖZEL A., SANCAK K.  
MEDICINAL CHEMISTRY, vol.14, no.3, pp.230-241, 2018 (SCI-Expanded)
- IX. **Synthesis of 1,3,4-thiadiazol-2(3H)-one derivatives via an unexpected intramolecular addition-elimination reaction of 1,3,4-thiadiazoles**  
TAHTACI H., Er M., KARAKURT T., SANCAK K.  
TETRAHEDRON, vol.73, no.30, pp.4418-4425, 2017 (SCI-Expanded)
- X. **Structure Effect on K Shell Fluorescence Parameters at Bis-4-Bromobenzyl-1,2,4-Triazol-3-Ones**  
Aylıkci V., ÜNVER Y., Aylıkci N. K., TIRAŞOĞLU E., SANCAK K., LAGAP Z.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.36, no.12, pp.4120-4124, 2016 (SCI-Expanded)
- XI. **Synthesis of new 1,2,4-triazole compounds containing Schiff and Mannich bases (morpholine) with antioxidant and antimicrobial activities**  
ÜNVER Y., DENİZ S., ÇELİK F., Akar Z., KÜÇÜK M., SANCAK K.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.89-95, 2016 (SCI-Expanded)
- XII. **Effect of boron-containing additives on rheological properties of asphalt binder**  
ORUÇ Ş., Yılmaz B., SANCAK K.  
Road Materials and Pavement Design, vol.17, no.4, pp.810-824, 2016 (SCI-Expanded)
- XIII. **Synthesis of Novel Symmetrical 1,4-Disubstituted 1,2,3-Bistriazole Derivatives via 'Click Chemistry' and Their Biological Evaluation**  
Dugdu E., Unluer D., ÇELİK F., SANCAK K., Karaoglu S. A., ÖZEL A.  
MOLECULES, vol.21, no.5, 2016 (SCI-Expanded)
- XIV. **4-(4-((5-Amino-1,3,4-thiadiazol-2-yl)methoxy) phenyl)-1-((5-amino-1,3,4-thiadiazol-2-yl)methyl)-3-benzyl-1H-1,2,4-triazol-5(H)-one: Synthesis, Characterization and Computational Studies**  
UNLUER D., ÜNVER Y., DUGDU E., AKCAY H. T., SANCAK K.  
LETTERS IN ORGANIC CHEMISTRY, vol.13, no.8, pp.604-617, 2016 (SCI-Expanded)
- XV. **New thiophene-1,2,4-triazole-5(3)-ones: Highly bioactive thiosemicarbazides, structures of Schiff bases and triazole-thiols**  
ÜNVER Y., SANCAK K., ÇELİK F., BİRİNÇİ E., KÜÇÜK M., Soylu S., Burnaz N. A.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.84, pp.639-650, 2014 (SCI-Expanded)
- XVI. **Synthesis and Biological Properties of Novel Triazole-Thiol and Thiadiazole Derivatives of the 1,2,4-Triazole-3(5)-one Class**  
DUGDU E., ÜNVER Y., UNLUER D., SANCAK K.  
MOLECULES, vol.19, no.2, pp.2199-2212, 2014 (SCI-Expanded)
- XVII. **Synthesis, structural characterization and comparison of experimental and theoretical results by DFT level of molecular structure of 4-(4-methoxyphenethyl)-3,5-dimethyl-4H-1,2,4-triazole**  
DUGDU E., ÜNVER Y., UNLUER D., Tanak H., SANCAK K., Koysal Y., Isik S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.108, pp.329-337, 2013 (SCI-Expanded)
- XVIII. **Structure and anion effect on conductivity and K and L shell fluorescence parameters at green solvents**  
Aylıkci V., ÜNVER Y., Dugdu E., TIRAŞOĞLU E., Aylıkci N. K., Unluer D., SANCAK K., Kahoul A., Dogan M., Cengiz E., et al.  
CHEMICAL PHYSICS LETTERS, vol.556, pp.365-371, 2013 (SCI-Expanded)
- XIX. **Synthesis, structural and spectroscopic characterization, and photophysical and photochemical properties of peripherally tetratriazole-subsituted highly soluble metallophthalocyanines**  
Bayrak R., Durmus M., Meydanal S., SANCAK K., DEĞIRMENCİOĞLU İ.  
POLYHEDRON, vol.48, no.1, pp.1-8, 2012 (SCI-Expanded)

- XX. **Synthesis, characterization, spectral and electrical properties of peripherally tetratriazole-substituted phthalocyanines and its metal complexes**  
Bayrak R., KARAOĞLU K., ÜNVER Y., SANCAK K., DUMLUDAĞ F., DEĞİRMENCİOĞLU İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.712, pp.57-66, 2012 (SCI-Expanded)
- XXI. **Synthesis, characterization, and antioxidant activities of new trisubstituted triazoles**  
SANCAK K., ÜNVER Y., UNLUER D., DUGDU E., KOR G., ÇELİK F., BIRİNÇİ E.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.3, pp.457-466, 2012 (SCI-Expanded)
- XXII. **Synthesis, spectroscopic characterization, calculational studies and in vitro antitumoral activity of 4-(3-(1H-imidazol-1-yl)propyl)-(thiophen-2-ylmethyl)-1H-1,2,4-triazol-5(4H)-one**  
Suleymanoglu N., Ustabas R., Alpaslan Y. B., ÜNVER Y., Turan M., SANCAK K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.989, pp.101-108, 2011 (SCI-Expanded)
- XXIII. **Synthesis, crystal structure, and antioxidant properties of novel 1,2,4-triazol-5-ones containing 3,4-dimethoxyphenyl and 3,4-dihydroxyphenyl moiety**  
ÜNVER Y., MEYDANAL S., SANCAK K., UNLUER D., Ustabas R., DUGDU E.  
TURKISH JOURNAL OF CHEMISTRY, vol.35, no.2, pp.265-277, 2011 (SCI-Expanded)
- XXIV. **Experimental and theoretical studies of the molecular structure of 4-(3-(1H-imidazol-1-yl)propyl)-5-p-tolyl-2H-1,2,4-triazol-3(4H)-one**  
Ustabas R., Suleymanoglu N., Tanak H., Alpaslan Y. B., ÜNVER Y., SANCAK K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.984, pp.137-145, 2010 (SCI-Expanded)
- XXV. **The synthesis of some new imidazole and triazole derivatives: crystal Structure and DFT-TDDFT investigation on electronic structure**  
SANCAK K., ÜNVER Y., Tanak H., DEĞİRMENCİOĞLU İ., Dugdu E., Er M., Isyk S.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.67, pp.325-334, 2010 (SCI-Expanded)
- XXVI. **Experimental and DFT computational studies on 5-benzyl-4-(3,4-dimethoxyphenethyl)-2H-1,2,4-triazol-3(4H)-one**  
Tanak H., Koysal Y., Yavuz M., Buyukgungor O., SANCAK K.  
JOURNAL OF MOLECULAR MODELING, vol.16, no.3, pp.447-457, 2010 (SCI-Expanded)
- XXVII. **Synthesis and characterization of novel triazol compounds containing a thiophen ring as potential antifungal agents and the structure of 2-(2-hydroxy-2-p-tolyethyl)-5-(thiophen-2-ylmethyl)-4-(4H-1,2,4-triazol-4-yl)-2H-1,2,4-triazol-3(4H)-one**  
ÜNVER Y., DUGDU E., SANCAK K., Er M., Ustabas R.  
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.4, pp.551-563, 2010 (SCI-Expanded)
- XXVIII. **An experimental and DFT computational study on 4-(3-(1H-imidazol-1-yl)propyl)-5-methyl-2H-1,2,4-triazol-3(4H)-one monohydrate**  
Tanak H., Koysal Y., ÜNVER Y., Yavuz M., Isik S., SANCAK K.  
MOLECULAR PHYSICS, vol.108, no.2, pp.127-139, 2010 (SCI-Expanded)
- XXIX. **Synthesis and characterisations of some new 2,4-dihydro-[1,2,4]-triazol-3-one derivatives and X-ray crystal structures of 4-(3-phenylallylideneamino)-5-thiophen-2-yl-methyl-2,4-dihydro-[1,2,4]triazol-3-one**  
Sancak K., ÜNVER Y., Kazak C., DUGDU E., Arslan B.  
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- XXX. **5-Benzyl-4-[3-(1H-imidazol-1-yl)propyl]-2H-1,2,4-triazol-3(4H)-ones: Synthesis, spectroscopic characterization, crystal structure and a comparison of theoretical and experimental IR results by DFT calculations**  
ÜNVER Y., SANCAK K., Tanak H., DEĞİRMENCİOĞLU İ., Dugdu E., Er M., Isik S.  
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- XXXI. **Experimental and DFT studies of ethyl N'-3-(1H-imidazol-1-yl) propylcarbamoyl benzohydrazonate monohydrate**  
Tanak H., Koysal Y., ÜNVER Y., Yavuz M., Isik S., SANCAK K.  
STRUCTURAL CHEMISTRY, vol.20, no.3, pp.409-416, 2009 (SCI-Expanded)
- XXXII. **2-Benzoylmethyl-4-[(2-benzylideneethylidene)amino]-5-(2-thienylmethyl)-2H-1,2,4-triazol-3(4H)-**

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Ustabas R., Uenver Y., Suleymanoglu N., Coruh U., SANCAK K.

ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.65, 2009 (SCI-Expanded)

- XXXIII. **Spectroscopic and theoretical study of 1,2,4-triazole-3-one based salicylaldimine complexes and evaluation of superoxide-scavenging properties**

SERBEST K., Ozen A., ÜNVER Y., Er M., DEĞIRMENCİOĞLU İ., SANCAK K.

JOURNAL OF MOLECULAR STRUCTURE, vol.922, pp.1-10, 2009 (SCI-Expanded)

- XXXIV. **Synthesis and Characterizations of Some New Triazol-3-one Derivatives.**

Arslan N. B., KAZAK C., ÜNVER Y., SANCAK K.

ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (SCI-Expanded)

- XXXV. **Synthesis and Antimicrobial and Antitumor Activity of Some New [1,2,4] Triazole-5-one Derivatives**

Uenver Y., DUEGDUE E., SANCAK K., Er M., Karaoglu S. A.

TURKISH JOURNAL OF CHEMISTRY, vol.33, no.1, pp.135-147, 2009 (SCI-Expanded)

- XXXVI. **Synthesis, characterization and cyclization reactions of some new bisthiosemicarbazones**

Er M., ÜNVER Y., SANCAK K., DEĞIRMENCİOĞLU İ., Karaoglu S. A.

ARKIVOC, pp.149-167, 2009 (SCI-Expanded)

- XXXVII. **Influence of functional group effect on the K-shell X-ray production cross-sections and average fluorescence yields of sulphur in 1,2,4-triazol-5-one compounds containing thiophene**

Aylikci V., Cengiz E., APAYDIN G., ÜNVER Y., SANCAK K., TIRAŞOĞLU E.

CHEMICAL PHYSICS LETTERS, vol.461, pp.332-337, 2008 (SCI-Expanded)

- XXXVIII. **Binuclear transition metal complexes of a novel lateral-N-methylthiosemicarbazone through the central ethylene bridge: Synthesis, structural characterization and the response of ligand molecule to different solvent media**

Er M., SANCAK K., DEĞIRMENCİOĞLU İ., SERBEST K.

JOURNAL OF MOLECULAR STRUCTURE, vol.882, pp.35-46, 2008 (SCI-Expanded)

- XXXIX. **Synthesis and characterization of some new tetraaldehyde and tetraketone derivatives and X-ray Structure of 1,1'-(4,4'-(2-(1,3-bis(4-Acetylphenoxy) propan-2-ylidene)propane-1,3-diyl)bis(oxy)bis(4,1-phenylene))diethanone**

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- XL. **Ni(II), Cu(II), and Zn(II) Complexes of Tetradentate Schiff Base Containing Two Thiadiazoles Units: Structural, Spectroscopic, Magnetic Properties, and Molecular Modeling Studies**

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HETEROATOM CHEMISTRY, vol.19, no.7, pp.700-712, 2008 (SCI-Expanded)

- XLI. **Synthesis and antimicrobial evaluation of novel di-triazoles and 4-arylidene amino 4,5-dihydro-1H-[1,2,4] triazole-5-one derivatives**

Uenver Y., DUEGDUE E., SANCAK K., Er M., Karaoglu S. A.

TURKISH JOURNAL OF CHEMISTRY, vol.32, no.4, pp.441-455, 2008 (SCI-Expanded)

- XLII. **Synthesis and characterizations of some new tetra-thiosemicarbazones and their cyclization reactions; tetra-4-methyl-5-etoxy carbonyl-2,3-dihydro-1,3-thiazole and tetra-2-acetyl amino-4-acetyl-4,5-dihydro-1,3,4-thiodiazole derivatives**

Er M., Uenver Y., SANCAK K., DUEGDUE E.

ARKIVOC, pp.99-120, 2008 (SCI-Expanded)

- XLIII. **Microwave-assisted synthesis and characterization and theoretical calculations of the first example of free and metallophthalocyanines from salen type Schiff base derivative bearing thiophen and triazole heterocyclic rings**

SERBEST K., DEĞIRMENCİOĞLU İ., Uenver Y., Er M., KANTAR C., SANCAK K.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.25, pp.5646-5654, 2007 (SCI-Expanded)

- XLIV. **1-acetonyl-4-(2,5-dimethyl-4H-1,2,4-triazol-4-yl)-3-(2-thienylmethyl)-1H-1,2,4-triazol-5(4H)-one**

USTABAS R., CORUH U., Sancak K., DEMIRKAN E.

ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.63, 2007 (SCI-Expanded)

- XLV. **1-(benzoylmethyl)-4-[(2,4-dichlorobenzylidene)amino]-3-(2-thienylmethyl)4,5-dihydro-1H-1,2,4-triazol-5-one**  
USTABAS R., CORUH U., Sancak K., Uenver Y., VAZQUEZ-LOPEZ E. M.  
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- XLVI. **(E)-4,4'-(but-2-ene-1,4-diyldioxy)bis(3methoxybenzaldehyde)**  
USTABAS R., CORUH U., Sancak K., Er M., VAZQUEZ-LOPEZ E. M.  
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- XLVII. **4-[3-(1H-Imidazol-1-yl)propyl]-3-phenyl-1H-1,2,4-triazol-5(4H)-one**  
KALKAN H., USTABAS R., Sancak K., Uenver Y., VAZQUEZ-LOPEZ E. M.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.63, 2007 (SCI-Expanded)
- XLVIII. **1-(Acetonyl)-3-(2-thienylmethyl)-4-(4H-1,2,4-triazol-4-yl)-1H-1,2,4-triazol-5(4H)-one**  
USTABAS R., CORUH U., Sancak K., DEMIRKAN E., VAZQUEZ-LOPEZ E. M.  
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- XLIX. **Cu(II), Ni(II) and Fe(II) complexes with a new substituted [1,2,4] triazole Schiff base derived from 4-amino-5-(thien-2-yl ethyl)-2,4-dihydro-3H-1,2,4-triazol-3-one and 2-hydroxy-1-naphthaldehyde: synthesis, characterization and a comparison of theoretical and experimental results by Ab initio calculation**  
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TRANSITION METAL CHEMISTRY, vol.32, no.1, pp.16-22, 2007 (SCI-Expanded)
- L. **Synthesis of 2-acylamino, 2-arylamino and ethoxycarbonyl imino-1,3,4-thiadiazoles as antitumor agents**  
Sancak K., Unver Y., Er M.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.2, pp.125-134, 2007 (SCI-Expanded)
- LI. **4-[(5-Nitrothiophen-2-ylmethylene)amino]5-(thiophen-2-ylmethyl)-1H-1,2,4-triazol-5(4H)-one**  
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ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- LII. **Computational note on theoretical studies of ethene-1,1,2,2-tetrayltetramethylene tetrathiocyanate**  
ATALAY Y., Sancak K., AVCI D.  
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- LIII. **1-acetonyl-4-(3,5-diethyl-4H-1,2,4-triazol-4-yl)-3-(2-thienylmethyl)-1H-1,2,4-triazol-5(4H)-one**  
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ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- LIV. **3,3'-Bis(2-thienylmethyl)-4,4'-(butane-1,4-diyil)bis(4,5-dihydro-1H-1,2,4-triazol-5-one)**  
Unver Y., USTABAS R., CORUH U., Sancak K., VAZQUEZ-LOPEZ E. M.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- LV. **3,3'-Diisopropyl-4,4'-(hexane-1,6-diyil)bis-[1H-1,2,4-triazol-5(4H)-one] dihydrate**  
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- LVI. **Ethyl 5-oxo-4-[(2-pyridylmethylene) amino]-3-(2-thienylmethyl)-4,5-dihydro-1H-1,2,4-triazole-1-acetate (TF-S-pyridine-3-ester)**  
YILMAZ I., ARSLAN B., KAZAK C., Sancak K., Er M.  
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- LVII. **4-(2-pyridylmethyleneamino)-3-(2-thienylmethyl)-1H-1,2,4-triazol-5(4H)-one**  
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- LVIII. **Ethene-1,1,2,2-tetrayltetramethylene tetrathiocyanate**  
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- LIX. **1,2-Bis[5-oxo-3-(n-propyl)-4,5-dihydro-3H-1,2,4triazol-4-yl]ethane dihydrate**  
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- LX. (2-Cyanomethoxy-6-methoxyphenoxy)acetonitrile  
Sancak K.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.61, 2005 (SCI-Expanded)
- LXI. 4,4'-Butane-1,4-diylbis[3-ethyl-1H-1,2,4-triazol-5(4H)-one] and 4-hydroxy-3-n-propyl-1H-1,2,4-triazol-5(4H)-one  
ISKELELI N., ISIK S., SANCAK K., SAMAZ S., Unver Y., ER M.  
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.61, 2005 (SCI-Expanded)
- LXII. 1-(Benzoylmethyl)-4-(3,5-dimethyl-4H-1,2,4-triazol-4-yl)-3-(2-thienylmethyl)-1H-1,2,4-triazol-5(4H)-one  
Sancak K., CORUH U., UNVER Y., VAZQUEZ-LOPEZ E.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.61, 2005 (SCI-Expanded)
- LXIII. 3-(2-Thienylmethyl)-4,4'-bi-1H-1,2,4-triazol-5(4H)-one  
SANCAK K., USTABAS R., CORUH U., ER M., Unver Y., YAVUZ M.  
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- LXIV. Synthesis and antimicrobial activities of some new 1-(5-phenylamino-[1,3,4]thiadiazol-2-yl)methyl-5-oxo-[1,2,4]triazole and 1-(4-phenyl-5-thioxo-[1,2,4]triazol-3-yl)methyl-5-oxo-[1,2,4]triazole derivatives  
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- LXV. 2-[2-(cyanomethoxy)phenoxy]acetonitrile  
USTABAS R., CORUH U., SANCAK K., ER M., Unver Y., YAVUZ M.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- LXVI. Octane-1,8-diylbis[3-ethyl-1H-1,2,4-triazol-5(4H)-one]  
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## Metrics

Publication: 96  
Citation (WoS): 1125  
Citation (Scopus): 1168  
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H-Index (Scopus): 19

## Non Academic Experience

Karadeniz Teknik Üniversitesi Fen Fakültesi Kimya Bölümü