

## Prof.Dr. Ertan ŞAHİN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 51604

### Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Ens., Fizik Mühendisliği, Türkiye 1996 - 2003

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, Türkiye 1993 - 1996

Lisans, Atatürk Üniversitesi, Mühendislik Fak., Fizik Müh. Böl., Türkiye 1988 - 1993

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Bazı Ligandların ve Metal komplekslerin Kristal yapılarının ve moleküler konformasyonlarının X-ışınları kırınımı ve kimyasal hesaplama yöntemleri ile incelenmesi, Hacettepe Üniversitesi, Fen Bilimleri Ens. , Fizik Mühendisliği, 2003

Yüksek Lisans, Ekran Baskı yöntemi ile hazırlanan BiPbSrCaCuO üstüniletken kalın filimlerin Galvanomagnetik özellikleri, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, 1996

### Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Genel Fizik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof.Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2013 - Devam Ediyor

### Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2019 - Devam Ediyor

## Verdiği Dersler

Danışmanlık, Yüksek Lisans, 2019 - 2020

DNS, Yüksek Lisans, 2019 - 2020

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **N-Acetylation of methyl hydrazones with acetic acid in presence of PdCl<sub>2</sub>**  
Aslanoğlu F., ŞAHİN E.  
Synthetic Communications, cilt.53, ss.713-719, 2023 (SCI-Expanded)
- II. **Pyridine derivatives complexes of Co(II) and Ni(II) 3-bromobenzoates: Crystal structure, in silico anti-SARS-CoV-2 potential, serum albumin binding properties and cytotoxicity**  
Öztürkkan F. E., ÖZDEMİR M., Akbaba G. B., Sertçelik M., YALÇIN B., ŞAHİN E.  
Applied Organometallic Chemistry, cilt.37, sa.3, 2023 (SCI-Expanded)
- III. **Regioselective N-alkylation of some 2 or 6-chlorinated purine analogues**  
DOĞANÇ F., Aydın A. S., ŞAHİN E., GÖKER A. H.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1272, 2023 (SCI-Expanded)
- IV. **Stereoselective synthesis of novel bis-homoinositols with bicyclo[4.2.0] octane motifs**  
KARANFİL A., ŞAHİN E., KELEBEKLİ L.  
CARBOHYDRATE RESEARCH, cilt.519, 2022 (SCI-Expanded)
- V. **Regio- and stereo-chemical ring-opening reactions of the 2,3-epoxy alcohol derivative with nucleophiles: Explanation of the structures and C-2 selectivity supported by theoretical computations**  
GÜNDOĞDU Ö., Atalay A., Celebioglu N., ANIL B., ŞAHİN E., Sanli-Mohamed G., BOZKAYA U., KARA Y.  
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- VI. **Experimental and computational studies of 1,5-diphenyl-pyrazole-3-carboxamide compounds as potential Cannabinoid receptor type 1**  
KOCA İ., YAKAN M., ÇAPAN İ., ŞAHİN E., SERT Y.  
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- VII. **Study of chemical behaviors of 4-hydroxycumarin in alkali media: dicumarols or dihydro-4H-furo[3,2-c]chromenes?**  
Imani M., Pesyan N. N., Aalinejad M., ŞAHİN E.  
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- VIII. **A boron dipyrromethene chiral at boron and carbon with a bent geometry: synthesis, resolution and chiroptical properties**  
IŞIK M., DÜNDAR E., ŞAHİN E., TANYELİ C.  
CHEMICAL COMMUNICATIONS, cilt.58, sa.51, ss.7188-7191, 2022 (SCI-Expanded)
- IX. **Synthesis and biological effects evaluation of benzoconduritol C and D from oxabenzonorbornadiene**  
KELEBEKLİ L., Yılmaz F. Z., ÇOL AYVAZ M., ŞAHİN E.  
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- X. **Two independent and consecutive Michael addition of 1,3-dimethylbarbituric acid to (2,6-diarylidene)cyclohexanone: Flying-bird-shaped 2D-polymeric structure**  
Pesyan N. N., Mousavi S., ŞAHİN E.  
HETEROCYCLIC COMMUNICATIONS, cilt.28, sa.1, ss.44-50, 2022 (SCI-Expanded)
- XI. **Synthesis of novel acylthioureas bearing naphthoquinone moiety as dual sensor for high-performance naked-eye colorimetric and fluorescence detection of CN<sup>-</sup> and F<sup>-</sup> ions and its application in water and food samples**  
NURAL Y., Karasu E., Keles E., AYDINER B., SEFEROĞLU N., Efeoglu C., ŞAHİN E., SEFEROĞLU Z.  
DYES AND PIGMENTS, cilt.198, 2022 (SCI-Expanded)
- XII. **Structural analysis of halogenated bicyclo[4.2.0] inositols, biological activities and molecular**

#### **docking studies**

Sahin E. N., KARANFİL A., ÇOL AYVAZ M., ŞAHİN E., KELEBEKLİ L.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1248, 2022 (SCI-Expanded)

- XIII. **Synthesis, NMR, X-ray crystallography and DFT studies of some regioisomers possessing imidazole heterocycles**  
PÜSKÜLLÜ M. O., Doganc F., Ozden S., ŞAHİN E., ÇELİK İ., Goker H.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1243, 2021 (SCI-Expanded)
- XIV. **Synthesis, photophysical, thermal properties and X-Ray studies of novel organic dyes bearing Inden-1-ylidene and fluorene**  
Yahya M., Cakmaz D., Achelle S., le Gall E., ŞAHİN E., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.416, 2021 (SCI-Expanded)
- XV. **Novel halo-molecules; synthesis, structure elucidation, mechanism, and antioxidant activity**  
Bekfelavi E. Y., YILMAZ Ö., ŞAHİN E., ŞİMŞEK KUŞ N.  
MONATSHEFTE FÜR CHEMIE, cilt.152, sa.2, ss.295-304, 2021 (SCI-Expanded)
- XVI. **Thiazoline-Iridium (III) Complexes and Immobilized Nanomaterials as Selective Catalysts in N-Alkylation of Amines with Alcohols**  
DENİZALTI S., DAYAN S., GÜNNAZ S., ŞAHİN E.  
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.34, sa.12, 2020 (SCI-Expanded)
- XVII. **Polysubstituted pyrrolidines linked to 1,2,3-triazoles: Synthesis, crystal structure, DFT studies, acid dissociation constant, drug-likeness, and anti-proliferative activity**  
İNCE T., SERTTAŞ R., DEMİR B., Atabey H., SEFEROĞLU N., ERDOĞAN S., ŞAHİN E., Erat S., NURAL Y.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1217, 2020 (SCI-Expanded)
- XVIII. **The superiority of the classical synthesis compared to the hydrothermal synthesis upon the structural, optical absorption and fluorescent properties of new Cd(II) 3-fluorobenzoate complexes with Pyridine-3-carboxamide/ Pyridine-3-carboxylate**  
ÖZBEK F. E., SERTÇELİK M., YÜKSEK M., Elmali A., Sahin E.  
INORGANICA CHIMICA ACTA, cilt.509, 2020 (SCI-Expanded)
- XIX. **4-Methylmorpholinium bis-(thio)barbiturates: Synthesis, structure, anticancer evaluation, and CoMFA study**  
Pesyan N. N., Rashidnejad H., Esmaeili M. A., Safari E., TUNÇ T., Alilou M., Safavi-Sohi R., ŞAHİN E.  
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- XX. **A new mechanism for selective recognition of cyanide in organic and aqueous solution**  
Keles E., AYDINER B., NURAL Y., SEFEROĞLU N., ŞAHİN E., SEFEROĞLU Z.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, cilt.2020, sa.30, ss.4681-4692, 2020 (SCI-Expanded)
- XXI. **Synthesis of novel tetrols from syn-bisepoxide: Preparation of halogenated bicyclo[4.2.0] inositols**  
KARANFİL A., ŞAHİN E., KELEBEKLİ L.  
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- XXII. **Synthesis and biological evaluation of new chloro/acetoxy substituted isoindole analogues as new tyrosine kinase inhibitors**  
KÖSE A., Kaya M., Kishali N., AKDEMİR A., ŞAHİN E., KARA Y., ŞANLI MOHAMED G.  
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- XXIII. **A Facile and Catalyst-free Synthesis of Hexahydroacridine-1,8(2H,5H)-dione and Octahydroacridin-10(1H)-ylthiourea Derivatives: Inter- and Intramolecular Aza-Michael addition**  
Pesyan N. N., Akhteh N., Batmani H., ANIL B., ŞAHİN E.  
HETEROCYCLIC COMMUNICATIONS, cilt.26, sa.1, ss.26-32, 2020 (SCI-Expanded)
- XXIV. **Evaluation of Cytotoxic Potentials of Some Isoindole-1, 3-Dione Derivatives on HeLa, C6 and A549 Cancer Cell Lines**  
Tan A., Yaglioglu A. S., KİSHALI N., ŞAHİN E., KARA Y.  
MEDICINAL CHEMISTRY, cilt.16, sa.1, ss.69-77, 2020 (SCI-Expanded)
- XXV. **Sulfonamide-derived hydrazone compounds and their Pd (II) complexes: Synthesis, spectroscopic characterization, X-ray structure determination, in vitro antibacterial activity and computational**

**studies**

ÖZBEK N., Ozdemir U. O., Altun A. F., ŞAHİN E.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1196, ss.707-719, 2019 (SCI-Expanded)

- XXVI. **Novel highly functionalized 1,4-naphthoquinone 2-iminothiazole hybrids: Synthesis, photophysical properties, crystal structure, DFT studies, and anti(myco)bacterial/antifungal activity**  
GEMİLİ M., NURAL Y., Keles E., AYDINER B., SEFEROĞLU N., ÜLGER M., ŞAHİN E., Erat S., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1196, ss.536-546, 2019 (SCI-Expanded)
- XXVII. **Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors**  
YAMALI C., GÜL H. İ., Ece A., BUA S., ANGELİ A., SAKAGAMI H., ŞAHİN E., Supuran C. T.  
BIOORGANIC CHEMISTRY, cilt.92, 2019 (SCI-Expanded)
- XXVIII. **The clean and mild synthesis, crystal structure, and intra-molecular hydrogen bond study of substituted new 4,8-dihydropyrano[3,2-b]-pyrans containing chlorokojic acid moiety**  
Aghbash K. O., Pesyan N. N., Marandi G., DEGE N., ŞAHİN E.  
RESEARCH ON CHEMICAL INTERMEDIATES, cilt.45, sa.9, ss.4543-4554, 2019 (SCI-Expanded)
- XXIX. **The synthesis of blue emitting 3-Amino-1-hetarylfluorenes and their unprecedented alkylated derivatives**  
Yalcin E., Duyar H., Cakmaz D., ŞAHİN E., SEFEROĞLU Z.  
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- XXX. **Synthesis and biological evaluation of bromophenol derivatives with cyclopropyl moiety: Ring opening of cyclopropane with monoester**  
BOZTAS M., TASLIMI P., YAVARI M. A., GÜLÇİN İ., ŞAHİN E., MENZEK A.  
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- XXXI. **Synthesis, characterization, antioxidant properties and DFT calculation of some new pyrimidine derivatives**  
AKBAŞ E., ERGAN E., ŞAHİN E., EKİN S., ÇAKIR M., KARAKUS Y.  
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- XXXII. **SBA-16 supported amino acid Schiff base complexes of molybdenum as new heterogeneous molybdenum catalysts**  
Masteri-Farahani M., Eghbali P., ŞAHİN E.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, cilt.570, ss.347-353, 2019 (SCI-Expanded)
- XXXIII. **Synthesis and characterization of novel bromophenols: Determination of their anticholinergic, antidiabetic and antioxidant activities**  
Öztaşkın N., KAYA R., MARAŞ A., ŞAHİN E., GÜLÇİN İ., GÖKSU S.  
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- XXXIV. **Novel benzildihydrazone based Schiff bases: Syntheses, characterization, thermal properties, theoretical DFT calculations and biological activity studies**  
ELMACI G., Duyar H., AYDINER B., Yahaya I., SEFEROĞLU N., ŞAHİN E., Celik S. P., AÇIK L., SEFEROĞLU Z.  
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- XXXV. **An anomalous addition of chlorosulfonyl isocyanate to a carbonyl group: the synthesis of ((3aS, 7aR, E)-2-ethyl-3-oxo-2,3,3a, 4,7,7a-hexahydro-1H-isoindol-1-ylidene)sulfamoyl chloride**  
KÖSE A., Unal A., ŞAHİN E., BOZKAYA U., KARA Y.  
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, cilt.15, ss.931-936, 2019 (SCI-Expanded)
- XXXVI. **Two new potential optical materials: Co(II) and Ni(II) 3-fluorobenzoate complexes with pyridine-3-carboxamide**  
ÖZBEK F. E., SERTÇELİK M., YÜKSEK M., Kucukoz B., ELMALI A., ŞAHİN E.  
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- XXXVII. **From Bioactive Pyrrolidino[3,4-c] pyrrolidines to more Bioactive Pyrrolidino[3,4-b] pyrrolidines via**

### Ring-Opening/ Ring-Closing Promoted by Sodium Methoxide

Belveren S., LARRAÑAGA O., Poyraz S., Dondas H. A., Ulger M., ŞAHİN E., FERRÁNDÍZ-SAPERAS M., Sansano J. M., de Gracia Retamosa M., de Cozar A.

SYNTHESIS-STUTT GART, cilt.51, sa.7, ss.1565-1577, 2019 (SCI-Expanded)

- XXXVIII. **Cu(I)-catalyzed alkyne-azide "click" cycloaddition (CuAAC): a clean, efficient, and mild synthesis of new 1,4-disubstituted 1H-1,2,3-triazole-linked 2-amino-4,8-dihydropyrano[3,2-b]pyran-3-carbonitrile-crystal structure**  
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- XXXIX. **A Green Protocol for Simple One-pot Synthesis of New Pyrimidine Derivatives Both Microwave Irradiation and Conventional Heating: Reactions, Characterization, and Theoretical Calculations**  
Akbaş E., Rüzgar A., ŞAHİN E., Ergan E.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.56, sa.3, ss.1003-1011, 2019 (SCI-Expanded)
- XL. **Asymmetric synthesis of aminocyclooctenecarbonitriles: Cyclooctene beta-lactam and hydroxyaminocyclooctene carboxylic precursors**  
Aydin B. O., YURTOĞLU E., ARÇELİK N., Sahin E., Secen H., Altundas R.  
TETRAHEDRON LETTERS, cilt.60, sa.3, ss.284-287, 2019 (SCI-Expanded)
- XLI. **Novel 1,4-naphthoquinone N-arylthioureas: Syntheses, crystal structure, anion recognition properties, DFT studies and determination of acid dissociation constants**  
Gemili M., Nural Y., Keles E., Aydiner B., Seferoglu N., ŞAHİN E., Sari H., Seferoglu Z.  
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- XLII. **Synthesis and rearrangement reactions of 1,4-dihydrospiro[1,4-methanonaphthalene-9,1'-cyclopropane] derivatives**  
BAYRAK C., ŞENOL H., SIRTBAŞI S., ŞAHİN E., MENZEK A.  
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- XLIII. **Synthesis, characterization, and crystal structure of 6,7a-dichloro-3a-hydroxyoctahydro-1H-indene-2,5-diyl diacetates**  
Kelebekli L., ANIL B., GÖKSU S., ŞAHİN E.  
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- XLIV. **Cycloaddition Reactions of Benzonorbornadiene and Homonorbornadiene: New Isoxazoline and Pyridazine Derivatives**  
Adiloglu Y., ŞAHİN E., Tutar A., MENZEK A.  
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- XLV. **The syntheses, molecular structure analyses and DFT studies on new benzil monohydrazone based Schiff bases**  
Elmaci G., Duyar H., Aydiner B., Seferoglu N., NAZİRİ M. A., ŞAHİN E., Seferoglu Z.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1162, ss.37-44, 2018 (SCI-Expanded)
- XLVI. **Synthesis, crystal structure, DFT studies, acid dissociation constant, and antimicrobial activity of methyl 2-(4-chlorophenyl)-7a-((4-chlorophenyl)carbamothioyl)-1-oxo-5,5-diphenyl-3-thioxo-hexahydro-1H-pyrrolo[1,2-e]imidazole-6-carboxylate**  
Nural Y., Gemili M., Seferoglu N., ŞAHİN E., Ulger M., Sari H.  
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- XLVII. **Sonochemical synthesis of two novel Pb(II) 2D metal coordination polymer complexes: New precursor for facile fabrication of lead(II) oxide/bromide micro-nanostructures**  
Hayati P., Suarez-Garcia S., GUTIÉRREZ A., ŞAHİN E., Ruiz Molina D., Morsali A., Rezvani A. R.  
ULTRASONICS SONOCHEMISTRY, cilt.42, ss.310-319, 2018 (SCI-Expanded)
- XLVIII. **Regio- and stereospecific synthesis of DL-4,5-dibromo-4,5-dideoxy-3,6-O-methyl-chiro-inositol**  
Kelebekli L., Aksu K., ŞAHİN E.  
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- XLIX. **Synthesis, antimicrobial activity and acid dissociation constants of methyl 5,5-diphenyl-1-(thiazol-2-yl)pyrrolidine-2-carboxylate derivatives**

Nural Y., Gemili M., Ulger M., Sari H., De Coen L. M., ŞAHİN E.

BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.28, sa.5, ss.942-946, 2018 (SCI-Expanded)

- L. **Correction to: Synthesis, characterization, crystal structure, and antituberculosis activity of some novel polysubstituted aminocarbothiol/thiohydantoin-pyrrolidine derivatives**  
POYRAZ S., BELVEREN S., ÜLGER M., ŞAHİN E., DÖNDAŞ H. A.  
Monatshefte Fur Chemie, cilt.149, ss.663, 2018 (SCI-Expanded)
- L.I. **A facile and regioselective one-pot synthesis of novel pyrazolo[1,5:1,2]pyrrolo[3,4-b]quinoline-2,3-dicarboxylate hybrids via intramolecular Wittig reaction**  
LARGANI T. H., IMANZADEH G., PESYAN N. N., ŞAHİN E., SHAMKHALI A. N., NOTASH B.  
MOLECULAR DIVERSITY, cilt.22, sa.1, ss.37-46, 2018 (SCI-Expanded)
- L.II. **Synthesis of bis(thiosemicarbazone) derivatives: Definition, crystal structure, biological potential and computational analysis**  
Ates D., Gülcan M., Gümüş S., Sekerci M., Ozdemir S., ŞAHİN E., Colak N.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, cilt.193, sa.1, ss.14-22, 2018 (SCI-Expanded)
- L.III. **Synthesis, X-ray crystal structure and DFT studies of cobalt(II) and vanadium(V) complexes with N,N,O-tridentate aroyl-hydrazone based ligand**  
NAZİRİ M. A., ŞAHİN E., SEFEROĞLU N., SHAABANI B.  
JOURNAL OF COORDINATION CHEMISTRY, cilt.71, sa.1, ss.89-103, 2018 (SCI-Expanded)
- L.IV. **Synthesis, characterization, crystal structure, and antituberculosis activity of some novel polysubstituted aminocarbothiol/thiohydantoin-pyrrolidine derivatives**  
POYRAZ S., BELVEREN S., ÜLGER M., ŞAHİN E., DÖNDAŞ H. A.  
MONATSHEFTE FUR CHEMIE, cilt.148, sa.12, ss.2173-2182, 2017 (SCI-Expanded)
- L.V. **Reaction of 9-oxabicyclo[4.2.1]non-7-ene-1-ol with tetrazine: An unusually facile intramolecular rearrangement**  
KAYA A., SALAMCI E., MENZEK A., ERDEM S., ŞAHİN E., ECER K.  
TETRAHEDRON, cilt.73, sa.36, ss.5381-5388, 2017 (SCI-Expanded)
- L.VI. **Synthesis and anti(myco)bacterial activity of novel 5,5-diphenylpyrrolidine N-aroylthiourea derivatives and a functionalized hexahydro-1H-pyrrolo[1,2-c]imidazole**  
Ersen D., Ulger M., MANGELINCKX S., Gemili M., ŞAHİN E., Nural Y.  
MEDICINAL CHEMISTRY RESEARCH, cilt.26, sa.9, ss.2152-2160, 2017 (SCI-Expanded)
- L.VII. **Pt(II) and Ni(II) complexes of octahydropyrrolo[3,4-c]pyrrole N-benzoylthiourea derivatives: Synthesis, characterization, physical parameters and biological activity**  
Gemili M., Sari H., Ulger M., ŞAHİN E., Nural Y.  
INORGANICA CHIMICA ACTA, cilt.463, ss.88-96, 2017 (SCI-Expanded)
- L.VIII. **Synthesis, theoretical calculation, electrochemistry and total antioxidant capacity of 5-benzoyl-6-phenyl-4-(4-methoxyphenyl)-1,2,3,4-tetrahydro-2-thioxopyrimidine and derivatives**  
Ergan E., Akbaş E., Levent A., Sahin E., Konuş M., Seferoglu N.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1136, ss.231-243, 2017 (SCI-Expanded)
- L.IX. **Synthesis of tricyclic ring systems: [2+2] ketene addition reaction for preparation of tricyclic ketone, alcohol, and lactone derivatives**  
Yilmaz O., Bekfelavi E. Y., Kus N. S., Tunc T., ŞAHİN E.  
CHEMICAL PAPERS, cilt.71, sa.5, ss.929-938, 2017 (SCI-Expanded)
- L.X. **Preparation of novel pyrrol-2-one derivatives via an effective synthesis of new oxazole scaffold**  
Kibriz I. E., Sacmaci M., ŞAHİN E., YILDIRIM İ.  
TETRAHEDRON, cilt.73, sa.14, ss.1795-1802, 2017 (SCI-Expanded)
- L.XI. **Comparative transfer hydrogenation performance of homogeneous and heterogeneous ruthenium (II) catalysts derived from a Schiff base ligand**  
Ispir E., ŞAHİN E., İkiz M., Aktas A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.830, ss.188-195, 2017 (SCI-Expanded)
- L.XII. **New bimetallic dicyanidoargentate(I)-based coordination compounds: Synthesis, characterization, biological activities and DNA-BSA binding affinities**

- Korkmaz N., Aydin A., Karadag A., Yanar Y., Maasoglu Y., ŞAHİN E., Tekin S.  
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