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Education Information

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya / Organik Kimya, Turkey 2005 - 2008

Undergraduate, Ataturk University, Fen Fakültesi, Kimya, Turkey 1997 - 2001

Dissertations

Postgraduate, 1D, 2D NMR teknikleri kullanılarak endo ve exo benzosiklobutenonorboren bromürlerin yapılarının aydınlatılması ve X-ray analizleriyle korrelasyonları Bilimleri, Atatürk Üniversitesi, Fen Fakültesi, Organik Kimya, 2008

Research Areas

Chemistry, Organic Chemistry, Organic Spectroscopy, Stereochemistry and Conformational Analysis, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Ataturk University, Fen Fakültesi, Kimya, 2003 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reduction of 2-phenyl-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-dione with NaBH₄: Investigation of exo-selectivity and reaction mechanism via theoretical computations**
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- II. **Synthesis of New Ester Derivatives of Salicylic Acid and Evaluation of Their COX Inhibitory Potential**
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- III. **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**
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- IV. **Novel Mannich bases with strong carbonic anhydrases and acetylcholinesterase inhibition effects: 3-(aminomethyl)-6-[3-[4-(trifluoromethyl)phenyl]acryloyl]-2(3H)-benzoxazolones**
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- V. **Synthesis and in silico studies of triazene-substituted sulfamerazine derivatives as acetylcholinesterase and carbonic anhydrases inhibitors**
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- VI. **Novel sulphonamides incorporating triazene moieties show powerful carbonic anhydrase I and II inhibitory properties**
Bilginer S., Gonder B., Gül H. İ., Kaya R., Gülçin İ., Anil B., Supuran C. T.
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- VII. **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, vol.26, no.1, pp.26-32, 2020 (SCI-Expanded)
- VIII. **Novel pyrazole-3,4-dicarboxamides bearing biologically active sulfonamide moiety as potential carbonic anhydrase inhibitors**
Mert S., Alım Z., İlgör M. M., Anil B., Kasımoğulları R., Beyde S.
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- IX. **Synthesis of novel bis-sulfone derivatives and their inhibition properties on some metabolic enzymes including carbonic anhydrase, acetylcholinesterase, and butyrylcholinesterase**
Bicer A., Kaya R., ANIL B., Cin G. T., GÜLÇİN İ., GÜLTEKİN M. S.
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- X. **Preparation and detailed characterization of zirconia nanopowder supported rhodium (0) nanoparticles for hydrogen production from the methanolysis of methylamine-borane in room conditions**
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- XII. **Effects of Olea europaea L. Leaf Metabolites on the Tilapia (Oreochromis niloticus) and Three Stored Pests, Sitophilus granarius, Tribolium confusum and**

- Acanthoscelides obtectus**
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RECORDS OF NATURAL PRODUCTS, vol.12, no.3, pp.201-215, 2018 (SCI-Expanded)
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- XIV. **Synthesis and Cytotoxicities of New Azafluorenones with Apoptotic Mechanism of Action and Cell Cycle Analysis**
GÜL H. İ., TUĞRAK M., GÜL M., SAKAGAMI H., UMEMURA N., ANIL B.
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- XV. **Design, synthesis and biological activity of 1H-indene-2-carboxamides as multi-targeted anti-Alzheimer agents**
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- XVI. **A Novel Method for the Synthesis of Newfangled Asymmetric Schiff Bases from α -amino Acids under Ultrasonic Conditions and in Aqueous Medium**
ŞENDİL K., TEKİN T., GÖKSU H., OĞUZ M., ANIL B., GÜLTEKİN M. S.
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- XVII. **Synthesis and spectral investigation of some new hetaryl-substituted hydroquinolinone derivatives**
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- XVIII. **Synthesis of donepezil-based multifunctional agents for the treatment of Alzheimer's disease**
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BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.25, no.23, pp.5576-5582, 2015 (SCI-Expanded)
- XIX. **The Protective Effects of Osajin on Ischemia/Reperfusion Injury to Rat Ovaries: Biochemical and Histopathological Evaluation**
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KAFKAS UNIVERSİTESİ VETERİNER FAKÜLTESİ DERGİSİ, vol.21, no.5, pp.753-760, 2015 (SCI-Expanded)
- XX. **Preparation, anticholinesterase activity, and docking study of new 2-butenediamide and oxalamide derivatives**
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- XXI. **Microwave-Assisted Synthesis, Molecular Docking, and Cholinesterase Inhibitory Activities of New Ethanediame and 2-Butenediamide Analogues**
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- XXIII. **One-Pot Synthesis of Mannich Bases Under Solvent-Free Conditions**
DEMİRKOL O., AKBAŞLAR D., GİRAY S., ANIL B.
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- XXIV. **Synthesis and Characterization of Novel Aryl Cyclitols: Polycyclitols**
BALCI N., ANIL B., KELEBEKLI L., ŞAHİN E., GÖKSU S.
SYNTHETIC COMMUNICATIONS, vol.43, no.22, pp.3054-3063, 2013 (SCI-Expanded)
- XXV. **Microwave-Assisted Synthesis of New Dihydropyrimidine Derivatives and Mechanism of the Reactions**
AKBAŞ E., ŞAHİN E., YILDIZ E., ANIL B., AKYAZI İ.
LETTERS IN ORGANIC CHEMISTRY, vol.10, no.9, pp.651-656, 2013 (SCI-Expanded)
- XXVI. **Synthesis of some bisnitrosaccharins**
TAGIEV B. A., KAZAZ G., ANYL B.
RUSSIAN JOURNAL OF APPLIED CHEMISTRY, vol.85, no.10, pp.1581-1585, 2012 (SCI-Expanded)
- XXVII. **Microwave-Assisted Synthesis of Tetrahydropyrimidines via Multicomponent Reactions and Evaluation of Biological Activities**
AKBAŞ E., BERBER İ., AKYAZI İ., ANIL B., YILDIZ E.
LETTERS IN ORGANIC CHEMISTRY, vol.8, no.9, pp.663-667, 2011 (SCI-Expanded)
- XXVIII. **SYNTHESIS AND IN-VITRO ANTIOXIDANT EVALUATION OF SOME NOVEL 4-(4-SUBSTITUTED) BENZYLIDENAMINO-4,5-DIHYDRO-1H-1,2,4-TRIAZOL-5-ONES**
YÜKSEK H., GURSOY-KOL O., KEMER G., OCAK Z., ANIL B.
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- XXIX. **Structural analysis of 1-aryl-3-isopropylamino-1-propanone hydrochlorides**
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- XXX. **Structural Analysis of 1-aryl-3-isopropylamino-1-propanone hydrochlorides**
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- XXXI. **Synthesis and characterisation of 2,3a,5,6,7a-pentaacetoxy-octahydro-1H-indene from indan-2-ol**
BALCI N., KELEBEKLI L., GÖKSU S., ANIL B., ŞAHİN E.
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- XXXII. **Synthesis and characterisation of 2,3,4a,6,8a-penta-acetoxy decahydronaphthalene from 1,2,3,4-tetrahydronaphthalen-2-ol**
OZTAS KIN N., KELEBEKLI L., GÖKSU S., ANIL B., ŞAHİN E.
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- XXXIII. **Structural Analysis of endo- and exo-Benzocyclobutenonorborene-Dibromides by Using H-1, C-13 NMR and X-Ray Diffraction Techniques.**
ŞAHİN E., ANIL B., DAŞTAN A., KAZAZ C.
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- XXXIV. **A simple one-pot synthesis of 1,2,3,4-tetrahydro-2-thioxopyrimidine derivatives**
AKBAŞ E., ASLANOĞLU F., ANIL B., SENER A.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.45, no.5, pp.1457-1460, 2008 (SCI-Expanded)
- XXXV. **Synthesis and spectral studies of pyranone derivative and its Cu(II), Co(II), Ni(II) and Zn(II) complexes**
AKBAŞ E., SONMEZ M., ANIL B., ASLANOĞLU F.
RUSSIAN JOURNAL OF GENERAL CHEMISTRY, vol.78, no.6, pp.1277-1282, 2008 (SCI-Expanded)
- XXXVI. **Studies on reactions of pyrimidine compounds: Synthesis and reactions of 5-benzoyl-4,6-diphenyl-1,2,3,4-tetrahydro-2-thioxopyrimidine**
ASLANOĞLU F., AKBAS E., SOENMEZ M., ANIL B.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.182, no.7, pp.1589-1597, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design, Synthesis and Biological Activities of Chalcones with Piperonal Moiety**
TUĞRAK M., GÜL H. İ., ANIL B., AKINCIOĞLU H.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2020 (Peer-Reviewed Journal)
- II. **Design Synthesis and Biological Activities of Chalcones with Piperonal Moiety,"** Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi
TUĞRAK M., GÜL H. İ., ANIL B., AKINCIOĞLU H.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.620-630, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Borate Ester Compounds From Cyclic alcohols and Boric Acid**
ANIL B., DEMİRCİOĞLU İ. H., ARSLAN M. N., METİN Ö., GÜLTEKİN M. S.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE ICANAS 2018, Antalya, Turkey, 9 - 12 May 2018
- II. **Determination of Chemical Structures of Some New Azafluorenonones Compounds by Dynamic NMR Method**
ANIL B., GÜL H. İ., TUĞRAK M.
6.İLAÇ KİMYASI KONGRESİ, Antalya, Turkey, 22 - 25 March 2018
- III. **Bazı Azafluorenon Bileşiklerinin Kimyasal yapılarının Dinamik NMR Yöntemiyle Belirlenmesi.**
ANIL B., TUĞRAK M., GÜL H. İ.
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 22 - 25 March 2018
- IV. **Potansiyel Biyolojik Aktif Optikçe Saf Sülfonamid Türevlerinin Tek Kaptaki Sentezi**
DARDAYEL S., ATMACA U., ANIL B., ÇELİK M.
6.İLAÇ KİMYASI KONGRESİ, Antalya, Turkey, 22 - 25 March 2018
- V. **Potansiyel Biyolojik Aktif Sülfonil Amino Bileşiklerini Tek Kaptaki ve Yeni Bir Yöntemle Sentezi**
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- VII. **Illumination of Chemical Structures of Novel indeno Pyridine Compounds Targeting DNA Topoisomerase by 1D and 2D NMR techniques**
ANIL B., KAZAZ C., TUĞRAK M., GÜL H. İ.
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- VIII. **SYNTHESIS AND STRUCTURE ELUCIDATION OF NEW 1-(2,5/3,5-DIFLUOROPHENYL)-3-(2,3/2,4/2,5/3,4-DIMETHOXYPHENYL)-2-PROPEN-1-ONES AS ANTICANCER AGENTS**
KAZAZ C., ANIL B., YAMALI C., ÖZMEN ÖZGÜN D., GÜL H. İ., Sakagami H., Okudaira N.
International Workshop on Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine", 15 - 17 November 2017
- IX. **Illumination of chemical structures of novel indeno pyridine compounds targeting DNA topoisomerase inhibition by 1D and 2D NMR techniques**
Anıl B., Kazaz C., Tuğrak M., Gül H. İ.
The International Workshop on the Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine, İstanbul, Turkey, 15 - 17 November 2017
- X. **ILLUMINATION OF CHEMICAL STRUCTURES OF NOVEL INDENO PYRIDINE COMPOUNDS TARGETING DNA TOPOISOMERASE INHIBITION BY 1D AND 2D NMR TECHNIQUE**
KAZAZ C., ANIL B., TUĞRAK SAKARYA M., GÜL H. İ.
International Workshop on Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine, İstanbul, Turkey, 15 - 17 November 2017
- XI. **β-DİKETONAT ESASLI YENİ BİYOTİKETLERİN SENTEZİ VE YAPILARININ AYDINLATILMASI**
ÇOLAK A. T., ŞEN S., KOYUNCU ZEYBEK D., KARAŞANLI M. Ö., ANIL B.
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- XII. **Bazı İndenopiridin Bileşiklerinin Kimyasal Yapılarının 1D ve 2D NMR Teknikleriyle Aydınlatılması**
TUĞRAK M., ANIL B., GÜL H. İ.
5.İLAÇ KİMYASI KONGRESİ, Antalya, Turkey, 30 March - 02 April 2017
- XIII. **Illumination of Chemical Structures of Some Indeno Pyridine Compounds by 1D and 2D NMR Techniques**
TUĞRAK M., ANIL B., GÜL H. İ.
5. Drug Chemistry, Antalya, Turkey, 30 March - 02 April 2017
- XIV. **1 Okzoindan yapısında sekonder amit türevi bazı yeni bileşiklerde gerçekleştirilen modifikasyonların bileşiklerin kolinesteraz inhibisyonu üzerindeki etkisinin değerlendirilmesi**
KOCA M., YERDELEN K. Ö., Kasap Z., ANIL B.
I. Ulusal Marmara Eczacılık Kongresi, Turkey, 3 - 05 November 2016
- XV. **Okzoindan yapısında sekonder amit türevi bazı yeni bileşiklerde gerçekleştirilen modifikasyonların kolinesteraz inhibisyonu üzerindeki etkisinin değerlendirilmesi**
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- XVI. **Molecular Dynamics Studies of The Carboxy Indanone and The Tetralin Compounds by NMR Spectroscopy**
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1st International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015
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- XVIII. **ChE inhibition and A 42 aggregation activities of 1H Indene 2 carboxamidederivatives as anti Alzheimer agents**
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- XIX. **Biological activity of new cholinesterase inhibitors for Alzheimer disease**
Zeynep K., YERDELEN K. Ö., KOCA M., Ekrem K., ANIL B.
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- XX. **SYNTHESIS AND BIOLOGICAL EVALUATION OF FUMARAMIDES AS POTENTIAL CHE INHIBITORS**
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- XXI. **BIOLOGICAL ACTIVITY OF NEW CHOLINESTERASE INHIBITORS FOR ALZHEIMER S DISEASE**
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- XXII. **The synthesis of chiral imines from chiral amino acids and aryl aldehyde in ultrasound**
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- XXIV. **New 2 Butenediamide and Oxalamide Derivatives Synthesis and Study of Anticholinesterase Activity**
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- XXV. **Mikrodalga Destekli Yeni etandiamid ve 2 bütandiamid Analoglarının Sentezleri Moleküler Yerleştirme metodu ve kolinesteraz inhibitör Etkileri**
ANIL B., YERDELEN K. Ö., KOCA M., ZEYNEP K.
3.İlaç Kimyası Kongresi, Antalya, Turkey, 20 - 22 March 2015
- XXVI. **Heteroaril-substitue Hidrokinolinon Türevlerinin Spektral Analizleri.**
ANIL B., ÖZOKAN K. G., KAZAZ C., ŞAHİN E., KABAN Ş.
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- XXVII. **Bazı Metil-substitue 3-(2-piridil)-2-(2-tiyenil)tiyazolidin-4-on Türevlerinin Sentezi ve Spektral Yöntemlerle Yapı Analiz**
ANIL B., FİDAN İ., KAZAZ C., ŞAHİN E., KABAN Ş.
25 Ulusal Spektroskopi Kongresi, Turkey, 18 - 22 May 2011
- XXVIII. **Cis-3-Klor-6,7-dioksabisiklo[3.2.2]non-8-en'in ISI He Tepkimesi**
ANIL B., ÇETİNKAYA Y., MENZEK A., HÖKELEK T.
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- XXIX. **Structural Analysis of 1-aryl-3-isopropilamino-1-propanone hydrochlorides**
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- XXX. **1D, 2D-NMR Teknikleri ile Endo ve Exo Benzosiklobutenonorboren Tirbromürlerin Yapı Karakterizasyonu ve X-Ray analizleri ile Korelasyonları**
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- XXXI. **1 2 3 4 4a 9 9a 10 oktahidroantrasen 1 2 3 9 10 pentol Bileşiklerinin Stereokontrollü Sentezi**
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- XXXII. **Structural Analysis of endo- and exo- Benzocyclobutenonorborene-Dibromides by Using 1H, 13C NMR and X-Ray Diffraction Techniques**
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Supported Projects

- KOCA M., ANIL B., BİLGİNER S., Project Supported by Higher Education Institutions, Potansiyel karbonik anhidraz inhibe edici özelliğe sahip metansülfonamid ve benzensülfonamid türevi tiyöüre artışı taşıyan yeni pirazolin bileşiklerinin tasarımı sentezi ve yapılarının aydınlatılması, 2021 - 2022
- KOCA M., NİŞANCI B., BAYIR Y., ERCAN Z., ANIL B., Project Supported by Higher Education Institutions, SALİSİLİK ASİTİN OHİDROKSİL GRUBUNUN DEĞİŞİK ASİTLERLE OLUŞTURACAĞI YENİ ESTER TÜREVLERİNİN SENTEZİ VE BUNLARIN COX İNHİBİSYON AKTİVİTELERİNİN İNSİLİKO MOLEKÜLER MODELLEME VE İN VİTRO ÇALIŞMALARLA DEĞERLENDİRİLMESİ, 2020 - 2022
- AKBULUT N., MENZEK A., DAŞTAN A., EKİNCİ D., KILIÇ H., ÖZDEMİR H., KAZAZ C., SARAÇOĞLU N., ONGANER Y., ŞAHİN E., et al, Project Supported by Higher Education Institutions, Kimya Bölümünün Akademik Araştırma Potansiyelinin Geliştirilmesi, 2019 - 2021
- BİLGİNER S., GÜLÇİN İ., GÜL H. İ., ANIL B., Project Supported by Higher Education Institutions, Triazen Yapısındaki Yeni Sülfonamid Türevi Moleküllerin Sentezi ve Karbonik Anhidraz İnhibisyonu Potansiyellerinin Araştırılması, 2020 - 2020
- ÇAKICI M., DAŞTAN A., MENZEK A., GÖKSU S., MARAŞ A., ANIL B., KILIÇ H., KİŞHALI N., BOZDEMİR Ö. A., KARA Y., et al, Project Supported by Higher Education Institutions, Nükleer Manyetik Rezonans (NMR) Cihazının Bakım ve Onarımı, 2018 - 2018

Memberships / Tasks in Scientific Organizations

- TÜRK EĞİTİM SENDİKASI, Chairman of the Board, 2021 - Continues, Turkey
- KİMYAGERLER DERNEĞİ, Board Member, 2011 - Continues, Turkey

Metrics

- Publication: 74
- Citation (WoS): 249
- Citation (Scopus): 248
- H-Index (WoS): 13
- H-Index (Scopus): 10

Congress and Symposium Activities

- Illumination of Chemical Structures of Some Indeno Pyridine Compounds by 1D and 2D NMR Techniques, Attendee, Antalya, Turkey, 2017
- SYNTHESIS OF NEW BIO-LABELS ON BASED ON β-DICETONATE AND ILLUMINATION OF THEIR STRUCTURES, Attendee, Antalya, Turkey, 2017
- Okzoidan yapısında sekonder amit türevi bazı yeni bileşiklerde gerçekleştirilen modifikasyonların kolinesteraz inhibisyonu üzerindeki etkisinin değerlendirilmesi, Attendee, İstanbul, Turkey, 2016
- Molecular Dynamics Studies of The Carboxy Indanone and Tetraline Compounds by NMR Spectroscopy, Attendee, Sarajevo, Bosnia And Herzegovina, 2015
- ChE inhibition and A 42 aggregation activities of 1H Indene 2 carboxamidederivatives as anti Alzheimer agents, Attendee, Erzincan, Turkey, 2015
- BIOLOGICAL ACTIVITY OF NEW CHOLINESTERASE INHIBITORS FOR ALZHEIMER S DISEASE, Attendee, Ankara, Turkey, 2015
- SYNTHESIS AND BIOLOGICAL EVALUATION OF FUMARAMIDES AS POTENTIAL CHE INHIBITORS, Attendee, Ankara, Turkey, 2015
- ...Microwave-Assisted Synthesis, Molecular Docking, and Cholinesterase Inhibitory Activities of New Ethanediamide and 2-Butenediamide Analogues, Attendee, Antalya, Turkey, 2015
- New 2 Butenediamide and Oxalamide Derivatives Synthesis and Study of Anticholinesterase Activity, Attendee, Turkey, 2013
- The synthesis of ciral imines from chiral amino acids and aryl aldehyde in ultrasound, Attendee, Antalya, Turkey, 2013

...Synthesis some of Metyl- susbtitue 3-(2-piridil)-2-(2- tiyenil) tyazolidin -4 on derivates and Illimination of their structures, Attendee, Antalya, Turkey, 2011
...Cis- 3- Chlorine 6,7 dioxabicyclo(3,2,2,) on -8-en with heat reaction, Attendee, Turkey, 2011
...Structural analysis of endo - and exo -benzocycobutenonorborene-dibromides by using 1 H, 13 C NMR and X-ray diffraction techniques, Attendee, Istanbul, Turkey, 2009
Structural Analysis of endo- exo Benzocycobutenonorborene- Monobromide by Using 1H, 13 C NMR and X -ray Diffraction Tecnigues, Attendee, Ankara, Turkey, 2009
Illumination of Chemical Structures of 2-Indenol bisepoxides Compounds by 1D and 2D NMR Techniques, Attendee, Ankara, Turkey, 2009

Non Academic Experience

Non-profit Organisation, TÜRK EĞİTİM-SEN, ERZURUM 2NOLU ŞUBE
TÜRK EĞİTİM SEN

Non-profit Organisation, KİMYAGERLER DERNEĞİ, DOĞU ANADOLU
KİMYAGERLER DERNEĞİ
ATATÜRK ÜNİVERSİTESİ