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ScopusID: 57189386556

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2019

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2011 - 2013

Dissertations

Doctorate, Pirimidin ve imidazol çekirdeđi içeren bileşiklerin sentezi ve in vitro sitotoksik aktivite çalışmaları, Erciyes University, Fen Bilimleri Enstitüsü, 2019

Postgraduate, Rutenyum(II) aren komplekslerinin elektron konformasyonel-genetik algoritma (EC-GA) metodu ile farmakofor modellemesi ve 4D QSAR analizi, Erciyes University, Fen Bilimleri Enstitüsü, 2013

Research Areas

Chemistry, Organic Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yıldırım University, İliç Dursun Yıldırım Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2022 - Continues

Lecturer PhD, Yozgat Bozok University, Şefaati Meslek Yüksekokulu, Veterinerlik, 2019 - 2021

Research Assistant, Erciyes University, Fen Bilimleri Enstitüsü, 2010 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Removal of manganese (Mn²⁺) from water samples using a biocomposite sorbent**
Çalışır A., AĞLAR YAVUZ S., YAVUZ E., ARAR Ö., Arda M.
Environmental Research, vol.257, 2024 (SCI-Expanded)
- II. **Superior photocatalytic performance of ZnMoO₄/Ag₂WO₄ for degradation of trimethoprim and methylene blue**

ÇAĞLAR YAVUZ S., YAVUZ E., ÖZDOKUR K. V.

International Journal of Environmental Analytical Chemistry, 2024 (SCI-Expanded)

- III. **Molecular docking studies and structural&electronic analysis of gefarnate**
ÇAĞLAR YAVUZ S.
Journal of the Indian Chemical Society, vol.100, no.4, 2023 (SCI-Expanded)
- IV. **Synthesis, Characterization, Biological Activity and Molecular Modeling Studies of Novel Aminoguanidine Derivatives**
Doğan N., ÇAĞLAR YAVUZ S., Sahin K., Orhan M. D., Muhammed H. K., Calis S., Küp F. Ö., Avsar T., AKKOÇ S., Tapera M., et al.
ChemistrySelect, vol.7, no.45, 2022 (SCI-Expanded)
- V. **Antiproliferative activity and molecular docking studies of new 4-oxothiazolidin-5-ylidene acetate derivatives containing guanylhydrazone moiety**
Al-Janabi I. A. S., Yavuz S., KÖPRÜ S., Tapera M., Kekeçmuhammed H., AKKOÇ S., TÜZÜN B., PATAT Ş., SARIPINAR E.
Journal of Molecular Structure, vol.1258, 2022 (SCI-Expanded)
- VI. **Efficient synthesis and molecular docking studies of new pyrimidine-chromeno hybrid derivatives as potential antiproliferative agents**
Yavuz S., AKKOÇ S., TÜZÜN B., Şahin O., SARIPINAR E.
Synthetic Communications, vol.51, no.14, pp.2135-2159, 2021 (SCI-Expanded)
- VII. **Single Crystal, DFT and Docking Studies of a Benzimidazolium Salt**
AKKOÇ S., Yavuz S., TÜRKMENOĞLU B., İLHAN İ. Ö., AKKURT M.
Crystallography Reports, vol.65, no.7, pp.1173-1178, 2020 (SCI-Expanded)
- VIII. **Synthesis of novel heterocyclic compounds containing pyrimidine nucleus using the Biginelli reaction: Antiproliferative activity and docking studies**
Yavuz S., Akkoç S., Türkmenoğlu B., Sarıpinar E.
Journal of Heterocyclic Chemistry, vol.57, no.6, pp.2615-2627, 2020 (SCI-Expanded)
- IX. **The effect of stereoisomerism on the 4D-QSAR study of some dipeptidyl boron derivatives**
Çatalkaya S., Sabancı N., Yavuz S., SARIPINAR E.
Computational Biology and Chemistry, vol.84, 2020 (SCI-Expanded)
- X. **The cytotoxic activities of imidazole derivatives prepared from various guanylhydrazone and phenylglyoxal monohydrate**
Yavuz S., AKKOÇ S., SARIPINAR E.
Synthetic Communications, vol.49, no.22, pp.3198-3209, 2019 (SCI-Expanded)
- XI. **Pharmacophore modelling and 4D-QSAR study of ruthenium(II) arene complexes as anticancer agents (inhibitors) by electron conformational-genetic algorithm method**
Yavuz S., Sabancı N., SARIPINAR E.
Current Computer-Aided Drug Design, vol.14, no.1, pp.79-94, 2018 (SCI-Expanded)
- XII. **4d-qsar study of some pyrazole pyridine carboxylic acid derivatives by electron conformational-genetic algorithm method**
TÜZÜN B., Yavuz S., Sabancı N., SARIPINAR E.
Current Computer-Aided Drug Design, vol.14, no.4, pp.370-384, 2018 (SCI-Expanded)
- XIII. **4D-QSAR investigation and pharmacophore identification of pyrrolo[2,1-c][1,4]benzodiazepines using electron conformational-genetic algorithm method**
Özalp A., YAVUZ S., Sabancı N., Çopur F., KÖKBUDAK Z., SARIPINAR E.
SAR and QSAR in Environmental Research, vol.27, no.4, pp.317-342, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **IN VITRO AND IN SILICO STUDIES ON LIGNAN SECOISOLARICIRESINOL DIGLUCOSIDE LİGNAN SEKOİZOLARİSİRESİNOL DİGLUKOSİT ÜZERİNE İN VİTRO VE İN SİLİKO ÇALIŞMALAR**
Bayar İ., ÇAĞLAR YAVUZ S., AKKOÇ S.

Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.48, no.1, pp.127-137, 2024 (Scopus)

II. THEORETICAL ELECTRONIC PROPERTIES, ADMET PREDICTION, and MOLECULAR DOCKING STUDIES of SOME IMIDAZOLE DERIVATIVES

Çağlar Yavuz S.

Journal of scientific reports-A (Online), no.51, pp.340-357, 2022 (Peer-Reviewed Journal)

III. Density functional theory study of a silver N-heterocyclic carbene complex

Akkoç S., Çağlar Yavuz S., Akkurt M., Ersanlı C. C.

Journal of the Chinese Advanced Materials Society, vol.6, no.2, pp.112-122, 2018 (Peer-Reviewed Journal)

IV. 4D-QSAR analysis and pharmacophore modeling: propoxy methylphenyl oxasiazole derivatives by electron conformational-genetic algorithm method

TÜZÜN B., ÇAĞLAR YAVUZ S., SARIPINAR E.

Journal of Physical and Theoretical Chemistry, vol.14, no.2, pp.149-164, 2017 (Peer-Reviewed Journal)

V. DFT studies and crystal structure of synthesized 1,3-bis(2-thiophenylmethyl)-4,5-dihydroimidazolidinium hexafluorophosphate salt

AKKOÇ S., TÜRKTEKİN ÇELİKESİR S., GÖK Y., ÇAĞLAR YAVUZ S., AKKURT M., ÖZDEMİR N.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.4, no.1, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Theoretical chemical calculations and molecular docking studies of epigallocatechin gallate

Çağlar Yavuz S.

5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022) , Ankara, Turkey, 23 - 25 November 2022, pp.1222-1228

II. A Comprehensive 4D-QSAR Research on Phenylpyrazole Glutamic Acid Piperazine Scaffold by Electron Conformational-Genetic Algorithm Method

Özdoğan R., Çağlar Yavuz S., Sabancı N., Sarıpinar E.

4th Organic Chemistry Congress with International Participation, Antalya, Turkey, 4 - 07 October 2018

III. Metil(2Z)-[(2Z)-2-[(E)-amino{(2E)-[(4-metilfenil)metiliden]hidraziniliden}metil]imino}-3-fenil-4-okso-1,3-tiyazolidin-5-iliden]asetat

ASLAN H. G., ÇAĞLAR YAVUZ S., SARIPINAR E.

II. ULUSLARARASİBİLİMSEL VE MESLEKİÇALIŞMALAR SEMPOZYUMU (BILMES 2018), 18 - 21 October 2018, pp.187-191

IV. REACTIONS OF AMINO GUANIDINE DERIVATIVES WITH DIMETHYL ACETYLENEDICARBOXYLATE

KÖKBUDAK Z., ÇAĞLAR YAVUZ S., KARATAŞ H., TÜRKMEÑOĞLU B., SARIPINAR E.

II. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS, (BILMES SCI 2018), 5 - 08 July 2018

V. Cytotoxic Activity Properties of Pyrimidine Derivative Compounds

ÇAĞLAR YAVUZ S., AKKOÇ S., SARIPINAR E.

II. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS, (BILMES SCI 2018), 5 - 08 July 2018

VI. THEORETICAL CALCULATIONS AND MOLECULAR DOCKING STUDY ANTICANCER EFFECT OF SYNTHESIZED SALT AGAINST HELA CELL LINE

Akkoç S., Çağlar Yavuz S., Türkmenoğlu B.

INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY AND FUNCTIONAL MATERIALS (PCFM'18), ELAZIĞ, TÜRKİYE, 19 - 21 June 2018

VII. Theoretical and X-Ray Studies of An Ag-NHC Complex

ÇAĞLAR YAVUZ S., AKKOÇ S.

INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY AND FUNCTIONAL MATERIALS (PCFM'18), ELAZIĞ, TÜRKİYE, 19 - 21 June 2018

VIII. Synthesis of Some Imidazole Derivatives

ÇAĞLAR YAVUZ S., SARIPINAR E.

INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY AND FUNCTIONAL MATERIALS (PCFM'18), ELAZIĞ,

TÜRKİYE, 19 - 21 June 2018

- IX. **Synthesis and Characterization of Some Thiazolidine Derivatives**
ÇAĞLAR YAVUZ S., AL JANABI I. A. S., SARIPINAR E., PATAT Ş.
INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY AND FUNCTIONAL MATERIALS (PCFM'18), ELAZIĞ,
TÜRKİYE, 19 - 21 June 2018
- X. **Synthesis of Pyrimidine Derivatives by Biginelli Reactions**
ÇAĞLAR YAVUZ S., SARIPINAR E.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), ANKARA,
TÜRKİYE, 26 - 27 April 2018
- XI. **Synthesis and Characterization of Some Imidazole Derivatives**
ÇAĞLAR YAVUZ S., SARIPINAR E.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), ANKARA,
TÜRKİYE, 26 - 27 April 2018
- XII. **Synthesized a New Organic Compound's Cytotoxic Activity Quantum Mechanics Calculations and Docking Studies**
Akkoç S., Türkmenoğlu B., Çağlar Yavuz S.
2nd International Conference on Natural Products for Cancer Prevention and Therapy, 8 - 11 November 2017,
vol.1, pp.1042
- XIII. **"Synthesis Of 4,2 Copper Ion Incorporated Aminoguanidine Derivatives-Based Hybrid Nanoflowers**
Çağlar Yavuz S., Somtürk Yılmaz B., Özdemir N., Sarıpinar E.
2nd NPCPT International Conference on Natural Products for Cancer Prevention and Therapy, Kayseri, Turkey, 8 -
11 November 2017, pp.1
- XIV. **Synthesis of Hydrazino-Pyrimidine Derivatives by Multi-Component Reactions**
ÇAĞLAR YAVUZ S., KARATAŞ H., SABANCI N., KÖKBUDAK Z., ÖZTÜRK KÜP F., SARIPINAR E.
5th International Bau Drug Design Congress, İstanbul, Turkey, 19 - 21 October 2017
- XV. **4D-QSAR Analysis and Pharmacophore Modeling: Electron Conformational-Genetic Algorithm Approach for Imidazo Derivatives**
ÇAĞLAR YAVUZ S., MEMİŞ Y., KÖPRÜ S., SARIPINAR E.
5th International Bau Drug Design Congress, 19 - 21 October 2017
- XVI. **Reaction of N (aminoamidino) thiourea derivatives with dimethylacetylene dicarboxylate**
AL JANABI I. A. S., ÇAĞLAR YAVUZ S., KÖPRÜ S., SARIPINAR E.
5th International Bau Drug Design Congress, 19 - 21 October 2017
- XVII. **SYNTHESIS AND CHARACTERIZATION OF NEW HETEROCYCLIC COMPOUNDS**
Çağlar Yavuz S., Sarıpinar E.
I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017
- XVIII. **4D-QSAR Investigation And Pharmacophore Identification Of Pyrrolo[2,1- C][1,4]Benzodiazepines Using Ec-Ga Method**
Çağlar Yavuz S., Sarıpinar E.
BAU International Drug Design Symposium 2013: Novel Methods and Emerging Targets in Drug
Discovery&Patented Drug Development, İstanbul, Turkey, 1 - 03 October 2017, pp.1
- XIX. **Yeni Oksotiazolidin Türevlerinin Sentezi ve Karakterizasyonu**
DOĞAN N., ÇAĞLAR YAVUZ S., KARATAŞ H., KÖPRÜ S., ŞAHİN O., KÖKBUDAK Z., SARIPINAR E.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi,
30 March - 02 April 2017
- XX. **İmidazo[4,5] Piridin-2-on Türevlerinin Elektron Konformasyonel-Genetik Algoritma Metodu (EC-GA) İle 4D-Qsar Analizi**
MEMİŞ Y., ÇAĞLAR YAVUZ S., KÖPRÜ S., SARIPINAR E.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi,
30 March - 02 April 2017
- XXI. **4D QSAR Analysis of Some Dipeptidyl Boron Compounds Pharmacophore Identification and Bioactivity Estimation**

ÇATALKAYA S., ÇAĞLAR YAVUZ S., SABANCI N., SARIPINAR E.

2thINTERNATIONAL TURKIC WORLDCONFERENCE ON CHEMICAL SCIENCES ANDTECHNOLOGIES, Skopje, Macedonia, 26 - 30 October 2016

XXII. SYNTHESIS OF GUANIDINE BASED OXOTHIAZOLIDINE DERIVATIVES AND QUANTUM CHEMICAL CALCULATIONS

DOĞAN N., KARATAŞ H., ÇAĞLAR YAVUZ S., SARIPINAR E.

28. ULUSAL KİMYA KONGRESİ, Mersin, Turkey, 15 - 21 August 2016

XXIII. "Investigation of Effect of the Phenylpyrazole Glutamic Acid Piperazine Compounds as an Coagulation Inhibitor on P2Y12 (Ki) Receptor by 4D-QSAR EC-GA Method

Çağlar Yavuz S., Özdoğan R., Sarıpınar E.

4th International BAU Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016, pp.1

XXIV. Malonnitril, Aldehit ve Tiyosemikarbazon Bileşiklerinden Üç Bileşenli Yeni 4-Amino-5-karbonitril Pirimidin Sentezi ve HF Hesaplamaları

Çağlar Yavuz S., Karataş H., Geçen N., Öztürk Küp F., Sarıpınar E.

27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1

XXV. Melanokortin-4 Türevlerinin Elektron Konformasyonel-Genetik Algoritma (EC-GA) Yöntemi ile Nicel Yapı Aktivite İlişkisinin İncelenmesi ve Aktif Yapının Belirlenmesi

Özalp A., Çağlar Yavuz S., Kökbudak Z., Sarıpınar E.

3. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 20 - 22 March 2015, pp.1

XXVI. Elektron Konformasyonel Genetik Algoritma 4D-QSAR Metodu İle Benzodiazepin Serisinde GI50 Aktivitesi için Farmakofor Belirlenmesi ve Biyoaktivite Hesabı

Özalp A., Çağlar Yavuz S., Kökbudak Z., Sarıpınar E.

3. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 20 March 2015 - 22 June 2022, pp.1

XXVII. Determination Of Pharmacophore Group And Bioactivity Account To Benzothienopyrimidinones, Compounds By Electron Conformational-Genetic Algorithm Method

Çağlar Yavuz S., Köprü S., Sarıpınar E.

10th Chemical Physics Congress (CPC-X), Ankara, Turkey, 10 - 12 October 2012, pp.1

XXVIII. "Rutenyum(II) Aren Komplekslerinin Elektron Konformasyonel-Genetik Algoritma (EC-GA) Metodu İle Farmakofor Modellemesi ve 4D-QSAR Analizi

Çağlar Yavuz S., Köprü S., Sarıpınar E.

26.Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, pp.1

XXIX. 4D-QSAR EC-GA Metodu ile Benzotiyenopirimidin Bileşik Serisinin Farmakofor Grubunun Belirlenmesi ve Biyoaktivite Hesabı

Çağlar Yavuz S., Köprü S., Keskin H., Sarıpınar E.

III. Fiziksel Kimya Günleri Kongresi, Balıkesir, Turkey, 12 - 15 July 2012, pp.1

XXX. 4D-Qsar EC-GA Metodu İle İmidazol Türevlerinin Farmakofor Grubunun Belirlenmesi ve Biyoaktivite Hesabı

Çağlar Yavuz S., Köprü S., Yanmaz E., Sarıpınar E.

25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1

XXXI. Piperazin Türevlerinin HIV-1 İnhibitörü Olarak Konformasyonel-Genetik Algoritma Yöntemi İle 4D-QSAR İncelenmes

Köprü S., Çağlar Yavuz S., Sarıpınar E., Yanmaz E.

25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.1

Supported Projects

Çağlar Yavuz S., Sarıpınar E., Project Supported by Higher Education Institutions, Pirimidin Bazlı Bileşiklerin Sentezi, 2019 - 2020

Çağlar Yavuz S., Sarıpınar E., Çetin M., Doğan Ş. D., Project Supported by Higher Education Institutions, Glikozillenmiş Kemoterapötik İlaçlar Geliştirme: Glikolize-Melphalan Türevlerinin Sentezi, 2018 - 2020

Çağlar Yavuz S., Sarıpınar E., Project Supported by Higher Education Institutions, PİRİMİDİN VE İMİDAZOL ÇEKİRDEĞİ İÇEREN BİLEŞİKLERİN SENTEZİ VE İN VİTRO SİTOTOKSİK AKTİVİTE ÇALIŞMALARI, 2016 - 2019

Çağlar Yavuz S., Sarıpınar E., Project Supported by Higher Education Institutions, GUANİDİN BAZLI OKSOTİAZOLİDİN TÜREVLERİNİN SENTEZİ VE KARAKTERİZASYONU, 2017 - 2017

Çağlar Yavuz S., Kökbudak Z., Öztürk Küp F., Karataş H., Geçen N., Sarıpınar E., Project Supported by Higher Education Institutions, Çok Bileşenli Reaksiyonlar: Ugi-Biginelli Melez Reaksiyonlarının Geliştirilmesi ve Heterosiklik Bileşiklerin Sentezi, Biyoaktivite ve 4D-QSAR Çalışmaları, 2014 - 2017

Çağlar Yavuz S., Sarıpınar E., İlhan İ. Ö., Project Supported by Higher Education Institutions, EC-GA Metodu ile Diketopiperazin türevlerinde farmakofor grubun belirlenmesi ve bioaktivite tahmini : 4D-QSAR YAKLAŞIMI, 2012 - 2015

Çağlar Yavuz S., Sarıpınar E., Keskin H., Project Supported by Higher Education Institutions, Benzotiyenopirimidin Bileşik Serisinin Elektron Konformasyon Genetik Algoritma EC GA Yöntemi İle QSAR İncelenmesi, 2011 - 2014

Çağlar Yavuz S., Sarıpınar E., Project Supported by Higher Education Institutions, Rutenyum II Aren Komplekslerinin Elektron Konformasyonel Genetik Algoritma EC GA Metodu ile Farmakofor Modellemesi ve 4D QSAR Analizi, 2012 - 2013

Patent

Çağlar Yavuz S., 5-FENİL-2-[2-(FENİLMETİLİDEN)HİDRAZİNO]-1H-İMİDAZOL-4-OL VE TÜREVLERİNİN SENTEZİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2020 13701 A2 , Standard Registration, 2022