

## Prof. EMİN SARIPINAR

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### Education Information

Doctorate, Erciyes University, Fen Fakültesi, Kimya, Turkey 1987 - 1990

Postgraduate, Erciyes University, Fen Fakültesi, Kimya, Turkey 1985 - 1987

Undergraduate, Inonu University, Temel Bilimler Fakültesi, Kimya Mühendisliği, Turkey 1979 - 1983

### Dissertations

Doctorate, 4-BENZOİL-5-FENİL-FURAN-2,3-DİON'UN ÇEŞİTLİ SEMİKARBAZON'LAR, aminoguanidinler ve amidlerle reaksiyonları, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 1990

### Research Areas

Simulation and Modelling, Bioinformatics, Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Natural Sciences

### Academic Titles / Tasks

Professor, Erciyes University, Fen Fakültesi, Kimya, 2003 - Continues

### Academic and Administrative Experience

Head of Department, Erciyes University, Fen Fakültesi, Kimya, 2016 - Continues

### Advising Theses

Sarıpınar E., N-(aminoamidino)tiyoüre türevlerinin pıfa ortamında siklizasyon reaksiyonlarının araştırılması, Postgraduate, H.DOĞAN(Student), 2019

Sarıpınar E., Benzotiyenopirimidin bileşik serisinin elektron konformasyon-genetik algoritma (EC-GA) yöntemiyle 4D-QSAR incelenmesi, Postgraduate, H.KESKİN(Student), 2019

Sarıpınar E., Pirimidin ve imidazol çekirdeği içeren bileşiklerin sentezi ve in vitro sitotoksik aktivite çalışmaları, Doctorate, S.ÇAĞLAR(Student), 2019

Sarıpınar E., Fenilpirazin, alkinilfenoksiasetik asit, ftalazin türevlerinin elektron konformasyonel-genetik algoritma (EC-GA) metodu ile 4D-QSAR analizi, Doctorate, S.KÖPRÜ(Student), 2018

Patat Ş., SARIPINAR E., REACTION OF N-(AMINOAMIDINO)THIOUREA DERIVATIVES WITH DIMETHYLACETYLENE DICARBOXYLATE, Postgraduate, I.ADNAN(Student), 2018

Sarıpınar E., Elektron konformasyonel-genetik algoritma 4D-QSAR metodu ile piridin karboksilik asit, oksadiazol, pirimidin ve oksazoltürevlerine ait farmakofor gruplarının belirlenmesi ve biyoaktivite hesabı, Doctorate, B.TÜZÜN(Student), 2018

Sarıpınar E., Çok fonksiyonlu 4-oksotiyozolidin sentezi ve kuantum hesaplamaları, Postgraduate, N.DOĞAN(Student), 2017

Sarıpınar E., Elektron konformasyonel-genetik algoritma metodu ile fenilpirazolglutamik asit piperazin bileşiklerinde farmakofor belirlenmesi ve 4D-QSAR analizi, Postgraduate, R.BAHAR(Student), 2016

Sarıpınar E., Dipeptidil bor bileşiklerinin elektron konformasyonel-genetik algoritma (EC-GA) metodu ile 4D-QSAR analizi, Postgraduate, S.ÇATALKAYA(Student), 2014

Sarıpınar E., Rutenyum(II) aren komplekslerinin elektron konformasyonel-genetik algoritma (EC-GA) metodu ile farmakofor modellemesi ve 4D QSAR analizi, Postgraduate, S.ÇAĞLAR(Student), 2013

Sarıpınar E., Anti-HIV etkili HEPT, TIBO, tiyazolidin ve DABO türevlerinin elektron konformasyonel-genetik algoritma metodu kullanılarak yeni bir 4D-QSAR yöntemi ile aktif gruplarının belirlenmesi, Doctorate, L.AKYÜZ(Student), 2010

Sarıpınar E., 3-(1,1-dioksa-2h-(1,2,4)-benzotiyodiazin-3-il)-4-hidroksi-2(1h)-kinolin bileşik serisinin hepatit c inhibitörü olarak elektron konformasyon-genetik algoritma (EC-GA) yöntemi ile QSAR incelenmesi, Postgraduate, S.AYDIN(Student), 2010

Sarıpınar E., Elektron konformasyonel-genetik algoritma qsar metodu ile penisilin türevlerine ait farmakofor grupların belirlenmesi ve biyoaktivite hesabı, Postgraduate, E.YANMAZ(Student), 2010

Sarıpınar E., Elektron konformasyonel genetik algoritma 4d-QSAR metodu ile pirazol, benzotriazin, dibenzazosin ve kinazolin serilerinde farmakofor belirlenmesi ve biyoaktivite hesabı, Doctorate, K.ŞAHİN(Student), 2010

Sarıpınar E., 1,4-dihidropiridin, artemisinin ve triazolpiridinoksazol türevlerinin nicel yapı aktivite ilişkilerinin incelenmesi ve biyoaktif yapının belirlenmesi, Doctorate, N.GEÇEN(Student), 2010

Sarıpınar E., ddd, Doctorate, M.SAÇMACI(Student), 2009

Sarıpınar E., HEPT bileşik serisinin HIV-1 inhibitörü olarak elektron konformasyon-genetik algoritma (EC-GA) yöntemi ile QSAR incelenmesi, Postgraduate, E.KAYA(Student), 2008

Sarıpınar E., Adenosin bileşik serisinin anti-tümör aktivitesinin elektron konformasyon-genetik algoritma (EC-GA) yöntemi ile QSAR incelenmesi, Postgraduate, Y.YAZAR(Student), 2008

Sarıpınar E., F2-NH-DABOs ve S-DABOs bileşik serilerinin HIV-1 inhibitörü olarak EC yöntemi (elektron konformasyonel) ile QSAR incelenmesi, Postgraduate, S.GÖKTAŞ(Student), 2007

Sarıpınar E., Benzodiazepinon (TIBO) bileşiklerinin HIV-1 inhibitörü olarak CoMCET yöntemi ile 3D-QSAR incelenmesi, Postgraduate, T.HIZCAN(Student), 2005

Sarıpınar E., 2-amino-6-arilsülfonil benzonitril bileşiklerinin HIV-1 inhibitörü olarak CoMCET metodu ile QSAR incelenmesi, Postgraduate, L.KULAK(Student), 2005

Sarıpınar E., Katı süper asit katalizörü kullanılarak aromatik hidrokarbonların uzun zincirli olefinlerle alkilasyonu, Postgraduate, E.BULUT(Student), 2005

Sarıpınar E., Keten ve oksoketenlerin çeşitli 1,3 dipolar bileşiklerle reaksiyonlarının kuantum kimyasal incelenmesi, Postgraduate, Ş.ŞAHİNDAŞ(Student), 2004

Sarıpınar E., Konjuge doymamış karbonil bileşiklerine organometal bileşiklerinin katılma mekanizmasının kuantum kimyasal incelenmesi, Postgraduate, A.YENER(Student), 2003

Sarıpınar E., Furan-2,3-dion'un semikarbanon ve fenilhidrazin ile reaksiyon mekanizmasının semiempirik (PM3) yöntemle araştırılması, Postgraduate, N.YAZIR(Student), 2002

Sarıpınar E., Fonksiyonel yeni pirimidin, piridazin ve imidazol türevlerinin sentezi: Deneysel verileri ve semiempirik (AM1) hesaplamalar, Postgraduate, Ç.YILMAZ(Student), 2000

Sarıpınar E., Visinal furan ve pirrol-2,3-dion sistemlerinin hidrazin ve o-fenilendiamin türevleriyle reaksiyonlarının deneysel ve semiempirik (PM3) verileri, Postgraduate, İ.ÖNCEL(Student), 1999

Sarıpınar E., N-arilpirrol-2,3-dion türevlerinin sentezi, termolizi, hidrzin hidrat ve o-difenilendiaminle reaksiyonları deneysel veriler ve semiempirik hesaplamalar, Postgraduate, S.KARATAŞ(Student), 1997

Sarıpınar E., 4-p Metoksibenzoil -5-p metoksipeni (-2,3-) furandionun çeşitli dienofil ve aminlerle reaksiyonları, Postgraduate, L.GÖKTAŞ(Student), 1995

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

- I. **Imidazole-based hydrazones as potent anti-colon cancer agents: Design, synthesis, biological evaluation and computational studies**  
Tapera M., Doğan E., Şahin K., Gözkamane G. A., Kekeçmuhammed H., Sandal S., GÜRKAN A., BORA R. E., Anber A., Durdagi S., et al.  
Journal of Molecular Structure, vol.1318, 2024 (SCI-Expanded)
- II. **Novel 1,2,4-triazole-maleamic acid derivatives: synthesis and evaluation as anticancer agents with carbonic anhydrase inhibitory activity**  
Tapera M., Kekeçmuhammed H., TÜZÜN B., DURNA DAŞTAN S., Safa Çelik M., Taslimi P., DAŞTAN T., Topcu K. S. B., Cacac E., Şahin O., et al.  
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- III. **The Suppressive Effect of Novel Hydrazones-Tethered Imidazoles in HCT-116 and HT-29 Colorectal Cancer Cells: Synthesis, Biological Activity and Molecular Modeling Studies**  
Kekeçmuhammed H., Tapera M., Sahin K., Sever B. O., Anber A. M., Bora R. E., AVŞAR T., Kilic T., Gunger E., Saripinar E., et al.  
CHEMISTRYSELECT, vol.9, no.19, 2024 (SCI-Expanded)
- IV. **Molecular hybrids integrated with imidazole and hydrazone structural motifs: Design, synthesis, biological evaluation, and molecular docking studies**  
Tapera M., Kekeçmuhammed H., SARIPINAR E., DOĞAN M., TÜZÜN B., KOÇYİĞİT Ü. M., Çetin F. N.  
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- V. **Design, synthesis, molecular docking and biological evaluation of 1,2,4-triazole derivatives possessing a hydrazone moiety as anti-breast cancer agents**  
Tapera M., Kekeçmuhammed H., Tunc C. U., Kutlu A. U., ÇELİK İ., Zorlu Y., AYDIN Ö., SARIPINAR E.  
New Journal of Chemistry, vol.47, no.24, pp.11602-11614, 2023 (SCI-Expanded)
- VI. **Synthesis, Biological Activity Evaluation and Molecular Docking of Imidazole Derivatives Possessing Hydrazone Moiety**  
Kekeçmuhammed H., Tapera M., Aydoğdu E., SARIPINAR E., Aydın Karatas E., Mehtap Uc E., Akyuz M., TÜZÜN B., GÜLÇİN İ., Emin Bora R. E., et al.  
Chemistry and Biodiversity, vol.20, no.6, 2023 (SCI-Expanded)
- VII. **Experimental and theoretical studies on 3-(4-chlorophenyl)-5-(4-ethoxyphenyl)-4,5-dihydropyrazole-1-carbonitrile: DFT quantum mechanical calculation, vibrational band analysis, prediction of activity spectra, and molecular docking**  
Zeyrek C. T., Akman S., İLHAN İ. Ö., KÖKBUDAK Z., SARIPINAR E., AKKOÇ S.  
Journal of Molecular Structure, vol.1276, 2023 (SCI-Expanded)
- VIII. **Synthesis, carbonic anhydrase inhibitory activity, anticancer activity and molecular docking studies of new imidazolyl hydrazone derivatives**  
Tapera M., Kekeçmuhammed H., TÜZÜN B., SARIPINAR E., KOÇYİĞİT Ü. M., Yıldırım E., DOĞAN M., Zorlu Y.  
Journal of Molecular Structure, vol.1269, 2022 (SCI-Expanded)
- IX. **Synthesis, characterization, anti-tuberculosis activity and molecular modeling studies of thiourea derivatives bearing aminoguanidine moiety**  
Tapera M., Kekeçmuhammed H., Sahin K., Krishna V. S., Lherbet C., Homberset H., Chebaiki M., Tonjum T., Mourey L., Zorlu Y., et al.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1270, 2022 (SCI-Expanded)
- X. **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., Öztürk Küp F., Avsar T., Akkoç S., Tapera M., et al.

CHEMISTRYSELECT, vol.7, no.45, pp.1-20, 2022 (SCI-Expanded)

- XI. **Antiproliferative activity and molecular docking studies of new 4-oxothiazolidin-5-ylidene acetate derivatives containing guanylhydrazone moiety**  
Al-Janabi I. A. S., Yavuz S. Ç., KÖPRÜ S., Tapera M., Kekeçmuhammed H., AKKOÇ S., TÜZÜN B., PATAT Ş., SARIPINAR E.  
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- XII. **Synthesis, Molecular Docking and Antiproliferative Activity Studies of a Thiazole-Based Compound Linked to Hydrazone Moiety**  
Kekeçmuhammed H., Tapera M., Tüzün B., Akkoç S., Zorlu Y., Sarıpınar E.  
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- XIII. **Combined 4D-QSAR and target-based approaches for the determination of bioactive Isatin derivatives**  
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Sar And Qsar In Environmental Research, vol.1, no.1, pp.1-25, 2021 (SCI-Expanded)
- XIV. **Efficient synthesis and molecular docking studies of new pyrimidine-chromeno hybrid derivatives as potential antiproliferative agents**  
Yavuz S. Ç., Akkoç S., Tüzün B., Şahin O., Sarıpınar E.  
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- XV. **Synthesis of novel heterocyclic compounds containing pyrimidine nucleus using the Biginelli reaction: Antiproliferative activity and docking studies**  
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JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.57, no.6, pp.2615-2627, 2020 (SCI-Expanded)
- XVI. **A novel hybrid method named electron conformational genetic algorithm as a 4D QSAR investigation to calculate the biological activity of the tetrahydrodibenzazosines**  
Sahin K., Sarıpınar E.  
JOURNAL OF COMPUTATIONAL CHEMISTRY, vol.41, no.11, pp.1091-1104, 2020 (SCI-Expanded)
- XVII. **Discovery of hydrazone containing thiadiazoles as Mycobacterium tuberculosis growth and enoyl acyl carrier protein reductase (InhA) inhibitors**  
Dogan H., DOĞAN Ş. D., GÜNDÜZ M. G., Krishna V. S., Lherbet C., Sriram D., Sahin O., Sarıpınar E.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.188, 2020 (SCI-Expanded)
- XVIII. **Discovery of hydrazone containing thiadiazoles as Mycobacterium tuberculosis growth and enoyl acyl carrier protein reductase (InhA) inhibitors**  
Doğan H., Doğan D., Gözde Gündüz ., Lherbet C., Sriram D., Şahin O., Sarıpınar E.  
European Journal Of Medicinal Chemistry, vol.1, no.1, pp.1-10, 2020 (SCI-Expanded)
- XIX. **The Effect of Stereoisomerism on the 4D-QSAR Study of Some Dipeptidyl Boron Derivatives**  
Çatalkaya S., Sabancı N., Çağlar Yavuz S., Sarıpınar E.  
Computational Biology And Chemistry, vol.1, no.1, pp.1-16, 2019 (SCI-Expanded)
- XX. **The cytotoxic activities of imidazole derivatives prepared from various guanylhydrazone and phenylglyoxal monohydrate**  
Yavuz S. C., AKKOÇ S., SARIPINAR E.  
SYNTHETIC COMMUNICATIONS, vol.49, no.22, pp.3198-3209, 2019 (SCI-Expanded)
- XXI. **Molecular docking and 4D-QSAR model of methanone derivatives by electron conformational-genetic algorithm method**  
Tüzün B., Sarıpınar E.  
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- XXII. **DNA Cleavage Properties, Antimicrobial and Cytotoxic Activity and 4D-QSAR Analysis of Some Pyrazole Derivatives**  
Köprü S., Kup F. O., Sabancı N., Çadır M., Bulut D. C., Duman F., İlhan İ. Ö., Sarıpınar E.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.16, pp.904-918, 2019 (SCI-Expanded)

- XXIII. **4D-QSAR analysis and pharmacophore modeling for alkynylphenoxyacetic acids as CRTh2 (DP2) receptor antagonists**  
Köprü S., Sarıpınar E.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, pp.1577-1597, 2018 (SCI-Expanded)
- XXIV. **Synthesis and Single Crystal X-Ray Structure of 3,5-Diphenyl-1-(phenylacetyl)-4,5-dihydro-1H-pyrazol**  
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CRYSTALLOGRAPHY REPORTS, vol.63, no.6, pp.937-941, 2018 (SCI-Expanded)
- XXV. **Pharmacophore Modelling and 4D-QSAR Study of Ruthenium(II) Arene Complexes as Anticancer Agents (Inhibitors) by Electron Conformational-Genetic Algorithm Method**  
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- XXVI. **4D-QSAR Study of Some Pyrazole Pyridine Carboxylic Acid Derivatives By Electron Conformational-Genetic Algorithm Method**  
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- XXVIII. **4D-QSAR investigation and pharmacophore identification of pyrrolo[2,1-c][1,4]benzodiazepines using electron conformational-genetic algorithm method**  
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- XXIX. **Crystal structure of 1-acetyl-3-(4-methylphenyl)-5-phenyl-4,5-dihydro-1H-pyrazole**  
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- XXX. **Synthesis, spectroscopic (FT-IR/NMR) characterization, X-ray structure and DFT studies on (E)-2-(1-phenylethylidene) hydrazinecarboximidamide nitrate hemimethanol**  
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- XXXI. **Conformation depends on 4D-QSAR analysis using EC-GA method: pharmacophore identification and bioactivity prediction of TIBOs as non-nucleoside reverse transcriptase inhibitors**  
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- XXXII. **4D-QSAR study of HEPT derivatives by electron conformational-genetic algorithm method**  
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- XXXIII. **Application of electron conformational-genetic algorithm approach to 1,4-dihydropyridines as calcium channel antagonists: pharmacophore identification and bioactivity prediction**  
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- XXXVI. **4D-QSAR analysis and pharmacophore modeling: Electron conformational-genetic algorithm approach for penicillins**

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- XL. **SYNTHESIS AND REACTIONS OF SOME 1H-PYRAZOLE-3 CARBOXYLIC ACID CHLORIDE**  
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- XLI. **New beta-tricarbonyl compounds: Synthesis, reactions with urea and some thioureas**  
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- XLII. **A convenient synthesis of functionalized 1H-pyrimidine-2-ones/thiones, pyridazine and imidazole; Experimental data and PM3 calculations**  
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- XLVIII. **5-(4-methoxybenzoyl)-4-(4-methoxyphenyl)-1-[1-(4-methoxyphenyl)ethylidenenamino]pyrimidin-2(1H)-one**  
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- LI. **Reactions of cyclic oxalyl compounds, synthesis of functionalized hydrazono-2H-imidazol-4,5(1H,**

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