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Publons / Web Of Science ResearcherID: CEZ-8766-2022

ScopusID: 6603903192

Yoksis Araştırmacı ID: 34569

### Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1998 - 2002

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Türkiye 1996 - 1998

Lisans, Van Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1991 - 1995

### Yaptığı Tezler

Doktora, Koyun eritrositleri ve göz lensinden glukoz-6-fosfat dehidrogenaz enziminin saflaştırılması, karakterizasyonu, bazı ilaç ve kimyasal maddelerin inhibisyon veya aktivasyon kinetiklerinin incelenmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2002

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### Araştırma Alanları

Biyokimya, Kimya, Biyokimya

### Akademik Unvanlar / Görevler

Prof. Dr., Anadolu Üniversitesi, ECZACILIK FAKÜLTESİ, TEMEL ECZACILIK BİLİMLERİ BÖLÜMÜ, 2016 - Devam Ediyor

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2012 - 2016

Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2006 - 2012

Yrd. Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2002 - 2006

Araştırma Görevlisi, Atatürk Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1996 - 2002

### Akademik İdari Deneyim

Bilecik Şeyh Edebali Üniversitesi, 2020 - Devam Ediyor

Bursa Teknik Üniversitesi, 2016 - 2016

Iğdır Üniversitesi, 2015 - 2016

Atatürk Üniversitesi, 2010 - 2012

Atatürk Üniversitesi, 2010 - 2011

## Verdiği Dersler

GENEL KİMYA, Lisans, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

BİYOKİMYA, Lisans, 2015 - 2016, 2011 - 2012, 2010 - 2011

Bazı Biyomakromolekülerin İzolasyonu, Karakterizasyonu ve Saflaştırma Teknikleri, Yüksek Lisans, 2011 - 2012, 2010 - 2011, 2009 - 2010

Biyoteknoloji, Lisans, 2011 - 2012, 2010 - 2011, 2009 - 2010

Protein Yapı Analizi, Doktora, 2011 - 2012, 2010 - 2011, 2009 - 2010

Biyolojik Makromoleküller için Spektroskopik Teknikler, Lisans, 2010 - 2011

Bitki Biyokimyası, Lisans, 2010 - 2011

Laboratuvar Deneyimi, Yüksek Lisans, 2010 - 2011

Biyokimya Laboratuvarı, Lisans, 2009 - 2010

## Yönetilen Tezler

ŞÜKRÜ B., İstiridye Mantarından (*Pleurotus ostreatus*) Modifiye Yöntemlerle Tirozinaz Enziminin Saflaştırılması, Yüksek Lisans, K.KURT(Öğrenci), 2022

ŞÜKRÜ B., Antidiyabetik ilaç formuna sahip bazı moleküllerin sentezi, karakterizasyonu, biyolojik özelliklerinin incelenmesi ve moleküler yerleştirme çalışmaları, Doktora, S.ALİ(Öğrenci), 2020

ŞÜKRÜ B., Keçi karaciğerinden sorbitol yolu enzimlerinin izolasyonu, karakterizasyonu ve bazı fenolik bileşiklerin enzimlerinaktivitesi üzerine etkilerinin incelenmesi, Doktora, M.AKKUŞ(Öğrenci), 2020

ŞÜKRÜ B., İnsan karbonik anhidraz VII enzim geninin eE coli'de klonlanması, ekspresyonu, rekombinant enzimin saflaştırılması, karakterizasyonu ve bazı antibiyotiklerin bu enzim aktivitesi üzerine etkilerinin incelenmesi, Doktora, H.ESRA(Öğrenci), 2018

ŞÜKRÜ B., İnsan aldehit dehidrogenaz izoenzimlerinin (ALDH1A1, ALDH1A3 ve ALDH2) klonlanması, ekspresyonu, saflaştırılması ve bazı antibiyotiklerin bu enzimlerin aktivitesi üzerine etkilerinin incelenmesi, Doktora, Y.DEMİR(Öğrenci), 2018

ŞÜKRÜ B., Siklooksijenaz enziminin insan apendiks dokusundan saflaştırılması ve bazı ilaçların enzim aktivitesi üzerine etkilerinin incelenmesi, Doktora, C.TÜRKEŞ(Öğrenci), 2016

ŞÜKRÜ B., Keçi (*Capra aegagrus Hircus*) böbreğinden aldoz redüktaz ve sorbitol dehidrogenaz enzimlerinin saflaştırılması, karakterizasyonu ile bazı ilaç ve metallerin enzim aktiviteleri üzerine etkilerinin incelenmesi, Doktora, M.KIRICI(Öğrenci), 2015

ŞÜKRÜ B., Koyun karaciğerinden aldoz redüktaz ve sorbitol dehidrogenaz enzimlerinin saflaştırılması ve bazı fenolik asitlerin enzimlerin aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, H.ESRA(Öğrenci), 2015

ŞÜKRÜ B., İnsan trombositlerinden nitrik oksit sentaz enziminin ve insan serumundan Paraoksonaz-1 enziminin saflaştırılması, bazı ilaçların bu enzimlerin aktiviteleri üzerine etkilerinin incelenmesi, Doktora, Z.ALİM(Öğrenci), 2015

ŞÜKRÜ B., Sığır böbreğinden aldoz redüktaz ve sorbitol dehidrogenaz enzimlerinin saflaştırılması, karakterizasyonu ve bazı antibiyotiklerin enzim aktivitesi üzerine etkilerinin incelenmesi, Doktora, N.KİLİNÇ(Öğrenci), 2015

ŞÜKRÜ B., İnsan karaciğeri pon1 enzim geninin klonlanması, inklüzyon cisimciklerinden arındırılarak protein yapısının yeniden katlandırılması ve enzimin karakterizasyonu, Yüksek Lisans, Y.DEMİR(Öğrenci), 2014

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ŞÜKRÜ B., Hamsi (*Engraulis encrasicolus*) ve mezgit (*Merlangius merlangus euxinus*) balıklarının solungaç dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve bazı metal iyonlarının enzim aktivitesi üzerine

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ŞÜKRÜ B., Nitrik oksit sentaz enziminin sığır böbrek ve trombositlerinden saflaştırılması, karakterizasyonu ve bazı ilaçların enzim aktivitesi üzerine etkilerinin incelenmesi, Doktora, M.MUSTAFA(Öğrenci), 2013

ŞÜKRÜ B., Tavuk karaciğerinden sorbitol dehidrogenaz enziminin saflaştırılması ve bazı ağır metallerin enzim aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, M.AKKUŞ(Öğrenci), 2012

ŞÜKRÜ B., Koyun karaciğer mikrozomlarından PON1 enziminin saflaştırılması, karakterizasyonu ve bazı radyonüklid ilaçların enzim aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, B.KONCUK(Öğrenci), 2011

ŞÜKRÜ B., Çipura (*Sparus aurata*) balığının karaciğer, solungaç ve böbrek dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve bazı metal iyonlarının enzim aktivitesi üzerine etkilerinin incelenmesi, Doktora, E.DUYGU(Öğrenci), 2011

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ŞÜKRÜ B., İnsan serumundan paraoksonaz-ı enziminin saflaştırılması ve bazı ilaçların enzim aktivitesi üzerine etkilerinin incelenmesi, Yüksek Lisans, C.TÜRKEŞ(Öğrenci), 2010

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ŞÜKRÜ B., İnsan serum paraoksonaz enziminin saflaştırılması ve bazı ilaçların enzim aktivitesi üzerine etkilerinin araştırılması, Yüksek Lisans, M.MUSTAFA(Öğrenci), 2009

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ŞÜKRÜ B., Gökkuşluğu alabalık (*oncorhynchus mykiss*) dokularından karbonik anhidraz enziminin saflaştırılması, karakterizasyonu ve kinetik özelliklerinin incelenmesi, Doktora, H.SÖYÜT(Öğrenci), 2006

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

- I. **Interactions of novel 1,3-diaryltriazene-sulfamethazines with carbonic anhydrases: Kinetic studies and *in silico* simulations**  
Lolak N., TÜRKEŞ C., AKOCAK S., DURAN H. E., IŞIK M., DURGUN M., BEYDEMİR Ş.  
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, cilt.761, 2024 (SCI-Expanded)
- II. **Synthesis of *N*-substituted 4-phenyl-2-aminothiazole derivatives and investigation of their inhibition properties against *h*CA I, II, and AChE enzymes**  
BİÇER A., ÇAĞLAYAN C., DEMİR Y., Turkes C., ALTUNDAŞ R., Akyildiz H., BEYDEMİR Ş.  
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- III. **Synthesis,  $\alpha$ -Glucosidase,  $\alpha$ -Amylase, and Aldol Reductase Inhibitory Activity with Molecular Docking Study of Novel Imidazo[1,2-*a*]pyridine Derivatives**  
Kaya B., Cevik U. A., ÇİFTÇİ B., Duran H. E., TÜRKEŞ C., IŞIK M., BOSTANCI H. E., KAPLANCIKLİ Z. A., BEYDEMİR Ş.  
ACS OMEGA, cilt.9, sa.42, ss.42905-42914, 2024 (SCI-Expanded)
- IV. **Novel benzenesulfonamides containing a dual triazole moiety with selective carbonic anhydrase inhibition and anticancer activity**  
Buza A., TÜRKEŞ C., ARSLAN M., DEMİR Y., Dincer B., Nixha A. R., BEYDEMİR Ş.  
RSC MEDICINAL CHEMISTRY, 2024 (SCI-Expanded)
- V. **Naphthoquinones and anthraquinones: Exploring their impact on acetylcholinesterase enzyme activity**

Duran H. E., BEYDEMİR Ş.

BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, cilt.71, sa.5, ss.1079-1093, 2024 (SCI-Expanded)

- VI. **Bioactivity, cytotoxicity, and molecular modeling studies of novel sulfonamides as dual inhibitors of carbonic anhydrases and acetylcholinesterase**  
Gulee O., TÜRKEŞ C., ARSLAN M., Demir Y., Dincer B., Ece A., Kufrevioglu O. I., BEYDEMİR Ş.  
JOURNAL OF MOLECULAR LIQUIDS, cilt.410, 2024 (SCI-Expanded)
- VII. **Dynamics of small molecule-enzyme interactions: Novel benzenesulfonamides as multi-target agents endowed with inhibitory effects against some metabolic enzymes**  
Gulec O., TÜRKEŞ C., ARSLAN M., Isik M., Demir Y., Duran H. E., Firat M., Kufrevioglu O. I., BEYDEMİR Ş.  
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, cilt.759, 2024 (SCI-Expanded)
- VIII. **Novel asymmetric bis-carbothioamides as Alzheimer's disease associated cholinesterase inhibitors: synthesis, biological activity, and molecular docking studies**  
MUĞLU H., Yakan H., Erdogan M., Topal F., Topal M., TÜRKEŞ C., BEYDEMİR Ş.  
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- IX. **New naphthoquinone thiazole hybrids as carbonic anhydrase and cholinesterase inhibitors: Synthesis, crystal structure, molecular docking, and acid dissociation constant**  
Efeoglu C., Selcuk O., DEMİR B., ŞAHİN E., SARI H., Turkes C., DEMİR Y., NURAL Y., BEYDEMİR Ş.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1301, 2024 (SCI-Expanded)
- X. **Protective effects of esculetin against doxorubicin-induced toxicity correlated with oxidative stress in rat liver: In vivo and in silico studies**  
Koeroglu Z., Kizir D., KARAMAN M., DEMİR Y., Tuerkes C., BEYDEMİR Ş.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, cilt.38, sa.4, 2024 (SCI-Expanded)
- XI. **Novel spiroindoline derivatives targeting aldose reductase against diabetic complications: Bioactivity, cytotoxicity, and molecular modeling studies**  
Gulec O., TÜRKEŞ C., ARSLAN M., DEMİR Y., Dincer B., Ece A., KÜFREYİOĞLU Ö. İ., BEYDEMİR Ş.  
BIOORGANIC CHEMISTRY, cilt.145, 2024 (SCI-Expanded)
- XII. **The impact of some metals, molecular docking and molecular dynamic calculations on glucose 6-phosphate dehydrogenase activity in *Capoeta trutta* (Heckel, 1843) tissue**  
KIRICI M., TÜZÜN B., KIRICI M., ATAMANALP M., Poustforoosh A., BEYDEMİR Ş., TAYSI M. R.  
JOURNAL OF MOLECULAR LIQUIDS, cilt.399, 2024 (SCI-Expanded)
- XIII. **New *N*-(1,3,4-thiadiazole-2-yl)acetamide derivatives as human carbonic anhydrase I and II and acetylcholinesterase inhibitors**  
Dawbaa S., Tuerkes C., Nuha D., DEMİR Y., Evren A. E., YURTTAŞ L., BEYDEMİR Ş.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2024 (SCI-Expanded)
- XIV. **Isolation of phenolic compounds from eco-friendly white bee propolis: Antioxidant, wound-healing, and anti-Alzheimer effects**  
NECİP A., Demirtas I., Tayhan S. E., IŞIK M., BİLGIN S., Turan I. F., Ipek Y., Beydemir Ş.  
FOOD SCIENCE & NUTRITION, cilt.12, sa.3, ss.1928-1939, 2024 (SCI-Expanded)
- XV. **Effect of fentanyl and remifentanyl on neuron damage and oxidative stress during induction neurotoxicity**  
Taghizadehghalehjoughi A., Naldan M. E., Yeni Y., Genc S., Hacimuftuoglu A., Isik M., Necip A., BOLAT İ., YILDIRIM S., Beydemir S., et al.  
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE, cilt.28, sa.4, 2024 (SCI-Expanded)
- XVI. **Design and Synthesis of Pyrazole Carboxamide Derivatives as Selective Cholinesterase and Carbonic Anhydrase Inhibitors: Molecular Docking and Biological Evaluation**  
DURGUN M., AKOÇAK S., Lolak N., Topal F., KOÇYİĞİT Ü. M., Turkes C., IŞIK M., BEYDEMİR Ş.  
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- XVII. **The effects of morin and methotrexate on pentose phosphate pathway enzymes and GR/GST/TrxR enzyme activities: An in vivo and in silico study**  
ÇAĞLAYAN C., TEMEL Y., TÜRKEŞ C., AYNA A., Ece A., BEYDEMİR Ş.  
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- XVIII. **Novel beta-lactam substituted benzenesulfonamides: in vitro enzyme inhibition, cytotoxic activity and in silico interactions**  
Gulec O, TÜRKES C., ARSLAN M., Demir Y., Dincer B., Ece A., BEYDEMİR Ş.  
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- XIX. **Synthesis, Theoretical, in Silico and in Vitro Biological Evaluation Studies of New Thiosemicarbazones as Enzyme Inhibitors**  
Erdogan M., ÇAVUŞ M. S., MUĞLU H., Yakan H., TÜRKES C., Demir Y., Beydemir S.  
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- XX. **Evaluation of the relationship among gene expressions and enzyme activities with antioxidant role and presenilin 1 expression in Alzheimer's disease**  
IŞIK M., Tunc A., Duran H. E., Naldan M. E., Yilmaz A., KOÇAK M. N., BEYDEMİR Ş.  
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- XXI. **Novel bis-ureido-substituted sulfaguanidines and sulfisoxazoles as carbonic anhydrase and acetylcholinesterase inhibitors**  
Lolak N., AKOÇAK S., DURGUN M., Duran H. E., NECİP A., TÜRKES C., IŞIK M., BEYDEMİR Ş.  
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- XXII. **Synthesis and Characterization of Novel 1,3-Diaryltriazene-Substituted Sulfaguanidine Derivatives as Selective Carbonic Anhydrase Inhibitors: Biological Evaluation, in Silico ADME/T and Molecular Docking Study**  
AKOÇAK S., Lolak N., Duran H. E., IŞIK M., TÜRKES C., DURGUN M., BEYDEMİR Ş.  
CHEMISTRY & BIODIVERSITY, cilt.20, sa.8, 2023 (SCI-Expanded)
- XXIII. **Synthesis and characterization of novel acyl hydrazones derived from vanillin as potential aldose reductase inhibitors**  
Demir Y., TOKALI F. S., Kalay E., TÜRKES C., Tokali P., ASLAN O. N., Sendil K., BEYDEMİR Ş.  
MOLECULAR DIVERSITY, cilt.27, sa.4, ss.1713-1733, 2023 (SCI-Expanded)
- XXIV. **Discovery of novel benzenesulfonamides incorporating 1,2,3-triazole scaffold as carbonic anhydrase I, II, IX, and XII inhibitors**  
Buza A., TÜRKES C., ARSLAN M., Demir Y., Dincer B., Nixha A. R., BEYDEMİR Ş.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.239, 2023 (SCI-Expanded)
- XXV. **A novel series of thiosemicarbazone hybrid scaffolds: Design, synthesis, DFT studies, metabolic enzyme inhibition properties, and molecular docking calculations**  
YAKAN H., MUĞLU H., TÜRKES C., Demir Y., Erdogan M., ÇAVUŞ M. S., BEYDEMİR Ş.  
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- XXVI. **A new series of hydrazones as small-molecule aldose reductase inhibitors**  
Altıntop M. D., Demir Y., Türkes C., Öztürk R. B., Cantürk Z., Beydemir Ş., Özdemir A.  
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- XXVII. **Novel acetic acid derivatives containing quinazolin-4(3H)-one ring: Synthesis, in vitro, and in silico evaluation of potent aldose reductase inhibitors**  
TOKALI F. S., Demir Y., TÜRKES C., Dincer B., BEYDEMİR Ş.  
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- XXVIII. **Enzyme inhibition, molecular docking, and density functional theory studies of new thiosemicarbazones incorporating the 4-hydroxy-3,5-dimethoxy benzaldehyde motif**  
Demir Y., TÜRKES C., ÇAVUŞ M. S., Erdogan M., MUĞLU H., YAKAN H., BEYDEMİR Ş.  
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- XXIX. **The synthesis, biological evaluation and in silico studies of asymmetric 3,5-diaryl-rhodanines as novel inhibitors of human carbonic anhydrase isoenzymes**  
Yararli K., Ozer E. B., BAYINDIR S., ÇAĞLAYAN C., TÜRKES C., BEYDEMİR Ş.  
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- XXX. **Exploration of Some Bis-Sulfide and Bis-Sulfone Derivatives as Non-Classical Aldose Reductase Inhibitors**  
Turkes C., Demir Y., BIÇER A., TURGUT CİN G., GÜLTEKİN M. S., BEYDEMİR Ş.

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- XXXI. **Recombinant human carbonic anhydrase VII: Purification, characterization, inhibition, and molecular docking studies**  
Duran H. E., BEYDEMİR Ş.  
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, cilt.70, sa.1, ss.415-428, 2023 (SCI-Expanded)
- XXXII. **Exploration of 1,2,3-triazole linked benzenesulfonamide derivatives as isoform selective inhibitors of human carbonic anhydrase**  
Kakakhan C., Türkeş C., Güleç Ö., Demir Y., Arslan M., Özkemahlı G., Beydemir Ş.  
Bioorganic and Medicinal Chemistry, cilt.77, 2023 (SCI-Expanded)
- XXXIII. **Molecular Docking Studies and the Effect of Fluorophenylthiourea Derivatives on Glutathione-Dependent Enzymes**  
Demir Y., TÜRKES C., KÜFREVİOĞLU Ö. İ., BEYDEMİR Ş.  
CHEMISTRY & BIODIVERSITY, cilt.20, sa.1, 2023 (SCI-Expanded)
- XXXIV. **Synthesis, characterization and docking studies of benzenesulfonamide derivatives containing 1,2,3-triazole as potential inhibitor of carbonic anhydrase I-II enzymes**  
Gungor S. A., KÖSE M., TÜMER M., TÜRKES C., BEYDEMİR Ş.  
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- XXXV. **In Vitro Inhibitory Activity and Molecular Docking Study of Selected Natural Phenolic Compounds as AR and SDH Inhibitors**  
TÜRKES C., Demir Y., BEYDEMİR Ş.  
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- XXXVI. **N-substituted phthalazine sulfonamide derivatives as non-classical aldose reductase inhibitors**  
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- XXXVII. **Biological evaluation and in silico study of benzohydrazide derivatives as paraoxonase 1 inhibitors**  
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- XXXVIII. **Methyl benzoate derivatives: in vitro Paraoxonase 1 inhibition and in silico studies**  
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- XXXIX. **Cytotoxic effect, enzyme inhibition, and in silico studies of some novel N-substituted sulfonyl amides incorporating 1,3,4-oxadiazol structural motif**  
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- XL. **Design, synthesis, and biological activity of novel dithiocarbamate-methylsulfonyl hybrids as carbonic anhydrase inhibitors**  
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- XLI. **Design, synthesis, and aldose reductase inhibitory effect of some novel carboxylic acid derivatives bearing 2-substituted-6-aryloxo- pyridazinone moiety**  
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- XLII. **Synthesis, biological evaluation, and in silico study of novel library sulfonates containing quinazolin-4(3H)-one derivatives as potential aldose reductase inhibitors**  
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- XLIII. **In vitro and in silico interactions of antiulcer, glucocorticoids and urological drugs on human carbonic anhydrase I and II isozymes**  
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- XLIV. **AChE mRNA expression as a possible novel biomarker for the diagnosis of coronary artery disease and Alzheimer's disease, and its association with oxidative stress**  
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- XLV. **Molecular docking and inhibition studies of vulpinic, carnosic and usnic acids on polyol pathway enzymes**  
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- XLVI. **Some calcium-channel blockers: kinetic and in silico studies on paraoxonase-I**  
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- XLVII. **Oxidative Stress and Changes of Important Metabolic Gene Expressions as a Potential Biomarker in the Diagnosis of Atherosclerosis in Leukocytes**  
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- XLIX. **Biological effects of bis-hydrazone compounds bearing isovanillin moiety on the aldose reductase**  
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- LI. **Infection Medications: Assessment In-Vitro Glutathione S-Transferase Inhibition and Molecular Docking Study**  
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- LII. **The impact of some phenolic compounds on serum acetylcholinesterase: kinetic analysis of an enzyme/inhibitor interaction and molecular docking study**  
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- LIII. **Purification of the phytase enzyme from *Lactobacillus plantarum*: The effect on pansy growth and macro-micro element content**  
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- LIV. **Calcium Channel Blockers: The Effect of Glutathione S-Transferase Enzyme Activity and Molecular Docking Studies**  
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- LV. **Gadolinium-based contrast agents: in vitro paraoxonase 1 inhibition, in silico studies**  
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- LVI. **Benzenesulfonamide derivatives as potent acetylcholinesterase, alpha-glycosidase, and glutathione S-transferase inhibitors: biological evaluation and molecular docking studies**  
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- LVII. **Identification of a new class of potent aldose reductase inhibitors: Design, microwave-assisted synthesis, in vitro and in silico evaluation of 2-pyrazolines**

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- LVIII. **Design, synthesis, characterization, in vitro and in silico evaluation of novel imidazo[2,1-b][1,3,4]thiadiazoles as highly potent acetylcholinesterase and non-classical carbonic anhydrase inhibitors**  
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- LIX. **Transition-Metal Complexes of Bidentate Schiff-Base Ligands: In Vitro and In Silico Evaluation as Non-Classical Carbonic Anhydrase and Potential Acetylcholinesterase Inhibitors**  
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- LX. **Synthesis, Characterization, and Inhibition Study of Novel Substituted Phenylureido Sulfaguandine Derivatives as alpha-Glycosidase and Cholinesterase Inhibitors**  
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- LXI. **A new series of 2,4-thiazolidinediones endowed with potent aldose reductase inhibitory activity**  
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- LXII. **Novel benzoic acid derivatives: Synthesis and biological evaluation as multitarget acetylcholinesterase and carbonic anhydrase inhibitors**  
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- LXIII. **Calcium channel blockers: molecular docking and inhibition studies on carbonic anhydrase I and II isoenzymes**  
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- LXIV. **An extensive research on aldose reductase inhibitory effects of new 4H-1,2,4-triazole derivatives**  
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- LXV. **Determination of the inhibition profiles of pyrazolyl-thiazole derivatives against aldose reductase and alpha-glycosidase and molecular docking studies**  
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- LXVI. **Thiazolyl-pyrazoline derivatives: In vitro and in silico evaluation as potential acetylcholinesterase and carbonic anhydrase inhibitors**  
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- LXVII. **Mannich reaction derived novel boron complexes with amine-bis(phenolate) ligands: Synthesis, spectroscopy and in vitro/in silico biological studies**  
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- LXIX. **Design, synthesis, in vitro and in silico investigation of aldose reductase inhibitory effects of new thiazole-based compounds**  
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- LXX. **Synthesis, characterization, inhibition effects, and molecular docking studies as acetylcholinesterase,**



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- LXXI. **Synthesis, characterization and carbonic anhydrase I and II inhibitory evaluation of new sulfonamide derivatives bearing dithiocarbamate**  
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- LXXIV. **Carbonic anhydrase, obstructive sleep apnea and hypertension: Effects of intervention**  
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- LXXVI. **Benzenesulfonamide derivatives containing imine and amine groups: Inhibition on human paraoxonase and molecular docking studies**  
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- LXXVII. **The Influence of Some Nonsteroidal Anti-inflammatory Drugs on Metabolic Enzymes of Aldose Reductase, Sorbitol Dehydrogenase, and alpha-Glycosidase: a Perspective for Metabolic Disorders**  
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- LXXXI. **Novel pyrazole-3,4-dicarboxamides bearing biologically active sulfonamide moiety as potential carbonic anhydrase inhibitors**  
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- LXXXIII. **The behavior of some chalcones on acetylcholinesterase and carbonic anhydrase activity**

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