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Publons / Web Of Science ResearcherID: ABI-4678-2020

ScopusID: 23096992900

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Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (Dr), Turkey 2000 - 2004

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (YI) (Tezli), Turkey 1998 - 2000

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 1994 - 1998

Dissertations

Doctorate, Clematis vitalba L. bitkisinin romatizma tedavisindeki etkisi üzerindeki çalışmalar, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (Dr), 2004

Postgraduate, Berberis crataegina DC. bitkisinin romatizma tedavisindeki etkisi üzerinde çalışmalar, Gazi University, Sağlık Bilimleri Enstitüsü, Farmakognozi (YI) (Tezli), 2000

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2013 - Continues

Associate Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2007 - 2013

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2006 - 2007

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1998 - 2006

Academic and Administrative Experience

Head of Department, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2021 - 2024

Gazi University, Eczacılık Fakültesi, 2012 - 2016

Courses

Farmakognozi-III, Undergraduate, 2022 - 2023

Advising Theses

- Akkol E., Şeker Karatoprak G., CENTAUREA DRABIFOLIA SUBSP. AUSTRO-OCCIDENTALIS WAGENITZ'İN ANTIENFLAMATUVAR ETKİSİNİN ARAŞTIRILMASI, Doctorate, H.NUR(Student), 2024
- Akkol E., Malva nicaeensis All. bitkisinin enflamatuvar bağırsak hastalıkları üzerindeki etkisinin In Vivo ve In Vitro deneysel modellerle değerlendirilmesi, Specialty In Pharmacy, E.GİZEM(Student), 2024
- Akkol E., Jasminum fruticans L. bitkisinin antihelmintik etkisinin farmakognozok açıdan değerlendirilmesi, Doctorate, S.POUR(Student), 2022
- Akkol E., Malva neglecta wallr. bitkisinin infertilite üzerinde etkisinin değerlendirilmesi, Postgraduate, F.GÜL(Student), 2022
- Akkol E., EVALUATION OF ELAEAGNUS ANGUSTIFOLIA L. IN TERMS OF PHYTOTHERAPY, Postgraduate, Ö.Sultan(Student), 2021
- Akkol E., Investigation Of Phytochemical Properties And Biological Effects Of The Plants Used For The Treatment Of Central Nervous System Disorders In Folk Medicine, Doctorate, F.TUĞÇE(Student), 2019
- Akkol E., Evaluation Of The Effect On The Myasis Of Hyoscyamus Niger L. In Terms Of Pharmacognosy, Postgraduate, M.SAK(Student), 2019
- AKKOL E., Zeytin (Olea europea L.) yaprağının antioksidan etkinliğinin in vitro yöntemlerle araştırılması, Postgraduate, S.MUAMMER(Student), 2019
- Akkol E., Pharmacognostical Studies On The Effects Of Plants Used For The Treatment Of Gynecological Disorders In Folk Medicine, Doctorate, M.İLHAN(Student), 2019
- AKKOL E., Evaluation Of Polygala Anatolica Boiss. Et heldr. In terms of Phytotheraphy, Postgraduate, A.İPEK(Student), 2015
- AKKOL E., Soya (glycine max L.)' nın dişi ratlarda reproduktif sisteme etkilerinin stereolojik olarak araştırılması, Doctorate, Y.CEYLANTEKİN(Student), 2014
- AKKOL E., Phytochemical And Biological Activity Studies On Rubus Sanctus Schreber, Postgraduate, E.ARAS(Student), 2014
- Akkol E., Tümen İ., Myrtus communis L. Bitkisinin Fitokimyasal İçeriği, Yara İyileştirici ve Anti-enflamatuvar Aktivitelerinin Değerlendirilmesi, Postgraduate, G.Erbey(Student), 2013
- Akkol E., Baykal T., Türkiye'de Halk Arasında Yara İyileştirici Amaçla Kullanılan Bazı Bitkilerin Aktiviteleri Üzerinde Araştırmalar, Doctorate, İ.SÜNTAR(Student), 2011
- AKKOL E., The importance of pimpinella anisum L. in phytotherapy, Postgraduate, E.GÜNEY(Student), 2010
- AKKOL E., Hypericum perforatum L. ve Hypericum scabrum L. bitkilerinin yara iyileştirici ve antienflamatuvar aktiviteleri üzerinde çalışmalar, Postgraduate, İ.PEŞİN(Student), 2007

Advising Graduates (Non-Thesis)

Akkol E., Migren Tedavisinde Kullanılan Bitkisel Ürünler, Masters (Non-Thesis), L.Can(Student), 2022

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2023

Doctorate, Doctorate, Afyon Kocatepe Üniversitesi, June, 2023

Doctorate, Doctorate, Gazi Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, April, 2023
Post Graduate, Post Graduate, Gazi Üniversitesi, April, 2023
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Fenerbahçe Üniversitesi, March, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, February, 2023
Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2023
Doctorate, Doctorate, Hacettepe Üniversitesi, December, 2022
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2022
Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2022
Doctorate, Doctorate, Gazi Üniversitesi, July, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, March, 2022
Doctorate, Doctorate, Gazi Üniversitesi, January, 2022
Doctorate, Doctorate, Gazi Üniversitesi, January, 2022
Post Graduate, Post Graduate, Gazi Üniversitesi, January, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Oral Active Carbon Quantum Dots for Diabetes**
Camlik G., Bilakaya B., AKKOL E., Velaro A. J., Wasnik S., Muhar A. M., DEĞİM İ. T., Sobarzo-Sanchez E.
PHARMACEUTICALS, vol.17, no.10, 2024 (SCI-Expanded)
- II. **Role of terpenes in regulating leukemia: mechanistic and clinical updates**
Logesh R., Alam W., Alsharif K. F., Albrakati A., AKKOL E., Khan H.
MINERVA BIOTECHNOLOGY AND BIOMOLECULAR RESEARCH, vol.36, no.3, pp.130-143, 2024 (SCI-Expanded)
- III. **Hybrid Caffeic Acid-Based DHFR Inhibitors as Novel Antimicrobial and Anticancer Agents**
Sehrawat R., Pasrija R., Rathee P., Kumari D., Khatkar A., Küpeli Akkol E., Sobarzo-Sánchez E.
Antibiotics, vol.13, no.6, 2024 (SCI-Expanded)
- IV. **Effects of Naphthoquinones from the Roots of *Onosma Armeniacum* Klokov on Wound Healing**
AKKOL E., SUBAŞ T., ÖZGEN U., SÜNTAR İ., İlhan M., Keleş H.
Chemistry and Biodiversity, vol.21, no.4, 2024 (SCI-Expanded)
- V. **Identification of bioactive components on antihemorrhoidal activity of *Cistus laurifolius* L. using RP-HPLC and LC-QTOF-MS**
PEKACAR S., Özüpek B., AKKOL E., TAŞTAN H., Ersan H., Orhan D. D.
Journal of Ethnopharmacology, vol.319, 2024 (SCI-Expanded)
- VI. **Evaluation of the anti-obesity effect of *Sambucus nigra* L. (elderberry) and *Vitex agnus-castus* L. (chasteberry) extracts in high-fat diet-induced obese rats**
ULUSOY Ş., İNAL E., Küpeli Akkol E., Çiçek M., KARTAL M., Sobarzo-Sánchez E.
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- VII. **Sedative and anxiolytic effects of *Capparis sicula* DuRoi: in vivo and in silico approaches with phytochemical profiling**
Karpuz Ağören B., Küpeli Akkol E., ÇELİK İ., Sobarzo-Sánchez E.
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- VIII. **A comprehensive review on the potential of coumarin and related derivatives as multi-target therapeutic agents in the management of gynecological cancers**
ŞEKER KARATOPRAK G., Dumlupınar B., CELEP M. E., Kurt Celep I., Küpeli Akkol E., Sobarzo-Sánchez E.
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- IX. **Assessment of Phenolic Composition, Antioxidant Potential, Antimicrobial Properties, and Antidiabetic Activity in Extracts Obtained from *Schinus molle* L. Leaves and Fruits**
İLGÜN S., ŞEKER KARATOPRAK G., ÇİÇEK POLAT D., KÖNGÜL ŞAFAK E., YÜCEL Ç., İNCE U., Uvat H. O., AKKOL E.
FRONTIERS IN BIOSCIENCE-LANDMARK, vol.28, no.12, pp.353-0, 2023 (SCI-Expanded)

- X. **The Wound-Healing Potential of the Endemic Plant *Helianthemum canum* (L.) Baumg: Preclinical Studies Supported with Phytochemical Profiling**
AKKOL E., Kosar M., Baldemir A., ŞEKER KARATOPRAK G., DEMİRPOLAT E., Betül Yerer Aycan M., SÜNTAR İ., İLGÜN S.
Chemistry and Biodiversity, vol.20, no.12, 2023 (SCI-Expanded)
- XI. **Antioxidant Activity and Chemical Composition of Geranium Oil and Its Synergistic Potential against Pneumococci with Various Antibiotic Combinations**
DÜMLUPINAR B., Karatoprak G. Ş., DEMİRCİ B., Akkol E., Sobarzo-Sánchez E.
Plants, vol.12, no.17, 2023 (SCI-Expanded)
- XII. **Neuroprotection against Aluminum Chloride-Induced Hippocampus Damage in Albino Wistar Rats by *Leucophyllum frutescens* (Berl.) I.M. Johnst. Leaf Extracts: A Detailed Insight into Phytochemical Analysis and Antioxidant and Enzyme Inhibition Assays**
Ahmad I., Ahmad S., Akkol E., Rao H., Shahzad M. N., Nawaz M., Ghalloo B. A., Shier W. T., Sobarzo-Sánchez E.
Frontiers in Bioscience - Landmark, vol.28, no.8, 2023 (SCI-Expanded)
- XIII. **Prevention of Inflammation Initiation on Acetic Acid-Induced Ulcerative Colitis in Rats by *Malva nicaeensis* All.**
Akkol E., Türkcanoğlu G., TAŞTAN H., Sobarzo-Sánchez E.
Frontiers in bioscience (Landmark edition), vol.28, no.7, pp.142, 2023 (SCI-Expanded)
- XIV. **Polyphenols: Natural Preservatives with Promising Applications in Food, Cosmetics and Pharma Industries; Problems and Toxicity Associated with Synthetic Preservatives; Impact of Misleading Advertisements; Recent Trends in Preservation and Legislation.**
Rathee P., Sehrawat R., Rathee P., Khatkar A., Akkol E., Khatkar S., Redhu N., Türkcanoğlu G., Sobarzo-Sánchez E.
Materials (Basel, Switzerland), vol.16, no.13, 2023 (SCI-Expanded)
- XV. **Editorial: Needs and challenges associated with the therapeutic use of novel natural products in weight control and diabetes management**
DELİORMAN ORHAN D., AKKOL E., Khan H.
FRONTIERS IN PHARMACOLOGY, vol.13, 2023 (SCI-Expanded)
- XVI. **Editorial: The Effect of Herbal Medicine on Intestinal Flora and the Potential Molecular Mechanism**
Liu W., Deng X., Kang W., Qian J., Akkol E., Durazzo A., Lucarini M.
Frontiers in Pharmacology, vol.14, 2023 (SCI-Expanded)
- XVII. ***In silico* design of novel bioactive molecules to treat breast cancer with chlorogenic acid derivatives: a computational and SAR approach**
Sehrawat R., Rathee P., Rathee P., Khatkar S., AKKOL E., Khatkar A., Sobarzo-Sanchez E.
FRONTIERS IN PHARMACOLOGY, vol.14, 2023 (SCI-Expanded)
- XVIII. **Bioactive Saponins of *Primula vulgaris* Huds. Promote Wound Healing through Inhibition of Collagenase and Elastase Enzymes: in Vivo, in Vitro and in Silico Evaluations**
KAHRAMAN Ç., SARI S., AKKOL E., ÇANKAYA İ. İ.
CHEMISTRY & BIODIVERSITY, vol.19, no.12, 2022 (SCI-Expanded)
- XIX. **Phytochemical Profiles, Antioxidant, Cytotoxic, and Anti-Inflammatory Activities of Traditional Medicinal Plants: *Centaurea pichleri* subsp. *pichleri*, *Conyza canadensis*, and *Jasminum fruticans***
ÇİÇEK POLAT D., İLGÜN S., Karatoprak G. Ş., AKKOL E., Capasso R.
Molecules, vol.27, no.23, 2022 (SCI-Expanded)
- XX. **The Phytochemical Profile and Biological Activity of *Malva neglecta* Wallr. in Surgically Induced Endometriosis Model in Rats**
Akkol E., Karpuz B., Türkcanoğlu G., Coşgunçelebi F. G., TAŞTAN H., Aschner M., Khatkar A., Sobarzo-Sánchez E.
Molecules, vol.27, no.22, 2022 (SCI-Expanded)
- XXI. **A Critical Analysis of Quercetin as the Attractive Target for the Treatment of Parkinson's Disease**
BAHADIR ACIKARA Ö., ŞEKER KARATOPRAK G., YÜCEL Ç., AKKOL E., Sobarzo-Sanchez E., Khayatkashani M., Kamal M. A., Kashani H. R. K.
CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS, vol.21, no.9, pp.795-817, 2022 (SCI-Expanded)
- XXII. **Phytochemical Composition and Biological Activities of *Arctium minus* (Hill) Bernh.: A Potential**

Candidate as Antioxidant, Enzyme Inhibitor, and Cytotoxic Agent

İLGÜN S., ŞEKER KARATOPRAK G., Polat D. C., Safak E. K., Yıldız G., AKKOL E., Sobarzo-Sanchez E.
ANTIOXIDANTS, vol.11, no.10, 2022 (SCI-Expanded)

- XXIII. **Wound healing acceleration and anti-inflammatory potential of *Prunella vulgaris* L.: From conventional use to preclinical scientific verification**
AKKOL E., RENDA G., İlhan M., Bektas N. Y.
JOURNAL OF ETHNOPHARMACOLOGY, vol.295, 2022 (SCI-Expanded)
- XXIV. **Immunomodulatory and anti-inflammatory therapeutic potential of gingerols and their nanoformulations**
YÜCEL Ç., ŞEKER KARATOPRAK G., BAHADIR ACIKARA Ö., AKKOL E., BARAK T. H., Sobarzo-Sanchez E., Aschner M., Shirooie S.
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (SCI-Expanded)
- XXV. **In silico investigation and potential therapeutic approaches of natural products for COVID-19: Computer-aided drug design perspective**
Rahman M. M., Islam M. R., Akash S., Mim S. A., Rahaman M. S., Bin Emran T., AKKOL E., Sharma R., Alhumaydhi F. A., Sweilam S. H., et al.
FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY, vol.12, 2022 (SCI-Expanded)
- XXVI. **Regulation of DAPK1 by Natural Products: An Important Target in Treatment of Stroke**
Noori T., Shirooie S., Sureda A., Sobarzo-Sanchez E., Dehpour A. R., Saldias M., AKKOL E.
NEUROCHEMICAL RESEARCH, vol.47, no.8, pp.2142-2157, 2022 (SCI-Expanded)
- XXVII. **Anti-inflammatory and Antinociceptive Potential of *Verbascum latisepalum***
KAHRAMAN Ç., SARI S., AKKOL E., AKDEMİR Z. Ş., ÇANKAYA İ. İ.
REVISTA BRASILEIRA DE FARMACOGNOSIA-BRAZILIAN JOURNAL OF PHARMACOGNOSY, vol.32, no.4, pp.537-543, 2022 (SCI-Expanded)
- XXVIII. **Herbal Ingredients in the Prevention of Breast Cancer: Comprehensive Review of Potential Molecular Targets and Role of Natural Products**
Akkol E., Bardakci H., Barak T. H., Aschner M., Karatoprak G. S., Khan H., Hussain Y.
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XXIX. **GC-MS profiling, phytochemical and biological investigation of aerial parts of *Leucophyllum frutescens* (Berl.) IM Johnst (Cenizo)**
Ahmad I., Ahmed S., Akkol E., Rao H., Shahzad M. N., Shaukat U., Basit A., Fatima M.
SOUTH AFRICAN JOURNAL OF BOTANY, vol.148, pp.200-209, 2022 (SCI-Expanded)
- XXX. **Plants with Therapeutic Potential for Ischemic Acute Kidney Injury: A Systematic Review**
Ali A., Lima Sampaio T., Khan H., Jeandet P., AKKOL E., Bahadar H., Costa Martins A. M.
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE, vol.2022, 2022 (SCI-Expanded)
- XXXI. **Phytochemical profile, antioxidant, antiproliferative, and enzyme inhibition-docking analyses of *Salvia ekimiana* Celep & Dogan**
ŞEKER KARATOPRAK G., GÖGER F., ÇELİK İ., BUDAK Ü., AKKOL E., Aschner M.
SOUTH AFRICAN JOURNAL OF BOTANY, vol.146, pp.36-47, 2022 (SCI-Expanded)
- XXXII. **Advances and challenges in cancer treatment and nutraceutical prevention: the possible role of dietary phenols in BRCA regulation**
Khan H., Labanca F., Ullah H., Hussain Y., Tzvetkov N. T., AKKOL E., Milella L.
PHYTOCHEMISTRY REVIEWS, vol.21, no.2, pp.385-400, 2022 (SCI-Expanded)
- XXXIII. **A comprehensive and current review on the role of flavonoids in lung cancer-Experimental and theoretical approaches**
BERK Ş., KAYA S., AKKOL E., BARDAKCI H.
PHYTOMEDICINE, vol.98, 2022 (SCI-Expanded)
- XXXIV. **Targeting lactate metabolism and glycolytic pathways in the tumor microenvironment by natural products: A promising strategy in combating cancer**
Kooshki L., Mahdavi P., Fakhri S., AKKOL E., Khan H.
BIOFACTORS, vol.48, no.2, pp.359-383, 2022 (SCI-Expanded)

- XXXV. **Effects of chitosan and platelet-rich plasma on facial nerve regeneration in an animal model**
Şahin M. M., Cayonu M., Dinc S. K., Ozkocer E., Ilhan M., Uzunoğlu E., Elmas Ç., Yılmaz M., Akkol E.
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.279, no.2, pp.987-994, 2022 (SCI-Expanded)
- XXXVI. **Plant-Derived Natural Compounds for the Treatment of Amyotrophic Lateral Sclerosis: An Update**
Mohi-ud-Din R., Mir R. H., Shah A. J., Sabreen S., Wani T. U., Masoodi M. H., AKKOL E., Bhat Z. A., Khan H.
CURRENT NEUROPHARMACOLOGY, vol.20, no.1, pp.179-193, 2022 (SCI-Expanded)
- XXXVII. **A New Perspective on the Treatment of Alzheimer's Disease and Sleep Deprivation-Related Consequences: Can Curcumin Help?**
Kuepeli Akkol E., BARDAKCI H., Yucel C., Seker Karatoprak G., Karpuz B., Khan H.
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XXXVIII. **Assessment of Antioxidant Effect of Beta-Glucan on the Whole Blood Oxidative DNA Damage with the Comet Assay in Colorectal Cancer**
Benlier N., Ucar N., Ogut E., Cinkir H. Y., Yildirim M., Karadeniz P. G., AKKOL E., Khan H., Saygili E. I.
CURRENT MOLECULAR PHARMACOLOGY, vol.15, no.2, pp.446-453, 2022 (SCI-Expanded)
- XXXIX. **An Overview on Rumex dentatus L.: Its Functions as a Source of Nutrient and Health-Promoting Plant**
Khalil A. A. K., Zeb F., Khan R., Shah S. A., Küpeli Akkol E., Khan I. N., Khan J., Babar Jamal S., Khuda F., Haider A., et al.
Evidence-based Complementary and Alternative Medicine, vol.2022, 2022 (SCI-Expanded)
- XL. **Effects of Natural Products on Neuromuscular Junction**
AKKOL E., ŞEKER KARATOPRAK G., Carpar E., Hussain Y., Khan H., Aschner M.
CURRENT NEUROPHARMACOLOGY, vol.20, no.3, pp.594-610, 2022 (SCI-Expanded)
- XLI. **Phenolic Acids-Versatile Natural Moiety with Numerous Biological Applications**
Sehrawat R., Rathee P., Akkol E., Khatkar S., Lather A., Redhu N., Khatkar A.
CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.22, no.18, pp.1472-1484, 2022 (SCI-Expanded)
- XLII. **Advances in Understanding the Role of Aloe Emodin and Targeted Drug Delivery Systems in Cancer**
ŞEKER KARATOPRAK G., AKKOL E., YÜCEL Ç., BAHADIR ACIKARA Ö., Sobarzo-Sanchez E.
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2022, 2022 (SCI-Expanded)
- XLIII. **Development of Cholesterol-Lowering and Detox Formulations Using Bentonite and Herbal Ingredients.**
Turgut R., KARTAL M., Akkol E., Demirbolat İ., TAŞTAN H.
Frontiers in pharmacology, vol.12, pp.775789, 2021 (SCI-Expanded)
- XLIV. **Neuroactivity of the naturally occurring aporphine alkaloid, roemerine.**
Bayazeid O., NEMUTLU E., Eylem C. C., Ilhan M., Kupeli-Akkol E., Karahan H., Kelicen-Ugur P., Ersoz T., Yalcin F. N.
Natural product research, vol.35, no.24, pp.6147-6152, 2021 (SCI-Expanded)
- XLV. **The Struggle with Rheumatism through Dracunculus vulgaris Schott: In the Light of Ethnobotanical Information**
GÜRAĞAÇ DERELİ F. T., Ilhan M., AKKOL E.
Current Molecular Pharmacology, vol.14, no.6, pp.1125-1133, 2021 (SCI-Expanded)
- XLVI. **Targeting Mitochondria by Plant Secondary Metabolites: A Promising Strategy in Combating Parkinson's Disease**
Fakhri S., Abdian S., Zarneshan S. N., AKKOL E., Farzaei M. H., Sobarzo-Sanchez E.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.22, 2021 (SCI-Expanded)
- XLVII. **Appraisal of the antimicrobial and cytotoxic potentials of nanoparticles biosynthesized from the extracts of Pelargonium quercetorum Agnew**
Dumlupinar B., ŞEKER KARATOPRAK G., Firat M., AKKOL E.
FRONTIERS IN BIOSCIENCE-LANDMARK, vol.26, no.11, pp.1089-1096, 2021 (SCI-Expanded)
- XLVIII. **Can Carbon Quantum Dots (CQDs) or Boron Compounds be an Ultimate Solution for COVID-19 Therapy?**
Camlik G., Akkol E., Degim Z., Degim I. T.
Iranian journal of pharmaceutical research : IJPR, vol.20, no.4, pp.9-20, 2021 (SCI-Expanded)
- XLIX. **The Neuroprotective Role of Polydatin: Neuropharmacological Mechanisms, Molecular Targets,**

Therapeutic Potentials, and Clinical Perspective

Fakhri S., Gravandi M. M., Abdian S., AKKOL E., Farzaei M. H., Sobarzo-Sanchez E.

MOLECULES, vol.26, no.19, 2021 (SCI-Expanded)

- L. **Multifunctional Therapeutic Potential of Phytocomplexes and Natural Extracts for Antimicrobial Properties**
Rahman M. M., Rahaman M. S., Islam M. R., Hossain M. E., Mithi F. M., Ahmed M., Saldias M., AKKOL E., Sobarzo-Sanchez E.
ANTIBIOTICS-BASEL, vol.10, no.9, 2021 (SCI-Expanded)
- LI. **Formation of quantum water in nanoparticulate systems**
Yerlikaya F., Camlik G., AKKOL E., Degim Z., DEĞİM İ. T., Sobarzo-Sanchez E.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.63, 2021 (SCI-Expanded)
- LII. **Is Emodin with Anticancer Effects Completely Innocent? Two Sides of the Coin**
AKKOL E., Tatli I. I., ŞEKER KARATOPRAK G., AĞAR O. T., YÜCEL Ç., Sobarzo-Sanchez E., Capasso R.
CANCERS, vol.13, no.11, 2021 (SCI-Expanded)
- LIII. **Natural Compounds as Medical Strategies in the Prevention and Treatment of Psychiatric Disorders Seen in Neurological Diseases.**
Kupeli Akkol E., Tatli Cankaya I., ŞEKER KARATOPRAK G., Carpar E., Sobarzo-Sanchez E., Capasso R.
Frontiers in pharmacology, vol.12, pp.669638, 2021 (SCI-Expanded)
- LIV. **Antibacterial, antifungal and enzyme inhibitory effects of selected plants from Turkey**
Gürbüz İ., Özçelik B., Günbatan T., Akkol E., Sahinoz M., Akaydin G.
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.34, no.3, pp.1011-1017, 2021 (SCI-Expanded)
- LV. **Ageratum conyzoides L. and Its Secondary Metabolites in the Management of Different Fungal Pathogens**
Chahal R., Nanda A., AKKOL E., Sobarzo-Sanchez E., Arya A., Kaushik D., Dutt R., Bhardwaj R., Rahman M. H., Mittal V.
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Non Academic Experience

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