

Asst. Prof. SEVGİ TÜRKER KAYA

Personal Information

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Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyokimya (Dr), Turkey 2002 - 2009

Post Graduate, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 1999 - 2002

Under Graduate, Hacettepe Üniversitesi, Tıp Eğitimi, Turizm İşletmeciliği ve Otelcilik Yüksekokulu, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2018 - Continues

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2011 - 2018

Research Assistant, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2009 - 2011

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2002 - 2009

Academic and Administrative Experience

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2011 - Continues

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, 2013 - 2016

Courses

Temel Biyofizik I, Under Graduate, 2017 - 2018

Biyomoleküler Etkileşmeler, Post Graduate, 2017 - 2018

Yabancı Dilde Okuma ve Konuşma, Under Graduate, 2016 - 2017, 2017 - 2018

Genel Biyoloji 1, Under Graduate, 2017 - 2018

Biyolojide Spektroskopi Yöntemleri, Post Graduate, 2017 - 2018

Yapay Membranlar Liposomlar ve Biyolojide Uygulamaları, Post Graduate, 2017 - 2018

Genetik Lab., Under Graduate, 2017 - 2018

Genetik I, Under Graduate, 2016 - 2017, 2017 - 2018

GENEL BİYOLOJİ, Under Graduate, 2016 - 2017

YAPAY MEMBRANLAR, LİPOZOMLAR VE BİYOLOJİDE UYGULAMALARI, Post Graduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Calorimetric and spectroscopic investigation of the interaction of chemotherapeutic agent carboplatin with sphingomyelin lipids**
TÜRKER KAYA S., Kina A.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2021 (Journal Indexed in SCI)
- II. **Analysis of rat blood plasma upon acute epileptic seizures by infrared spectroscopy with chemometrics**
Turker-Kaya S., İlbay G.
VIBRATIONAL SPECTROSCOPY, vol.109, 2020 (Journal Indexed in SCI)
- III. **Biomolecular Structure and Composition Changes in the Root System of Long-Lipped Serapias (Serapias vomeracea) After In Vitro Chitosan and Plant Growth Regulator Treatments**
ACEMİ A., Türker-Kaya S.
Journal of Plant Growth Regulation, 2020 (Journal Indexed in SCI)
- IV. **THE EFFECTS OF THE HERBICIDE ROUNDUP ON ZEA MAYS L.**
AKSOY Ö., TÜRKER KAYA S., Tutunoglu B.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.3, pp.1693-1700, 2019 (Journal Indexed in SCI)
- V. **A Review of Mid-Infrared and Near-Infrared Imaging: Principles, Concepts and Applications in Plant Tissue Analysis**
TÜRKER KAYA S., Huck C. W.
MOLECULES, vol.22, no.1, 2017 (Journal Indexed in SCI)
- VI. **Methodological Approches From Experimental to Computational Analysis in Vibrational Spectroscopy and Microspectroscopy**
Severcan F., AKKAŞ S. B. , TÜRKER KAYA S., Yucel R.
VIBRATIONAL SPECTROSCOPY IN DIAGNOSIS AND SCREENING, vol.6, pp.12-52, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The investigation of the interaction of armodafinil with membrane lipids by using DPPC model membrane system**
KIRKOÇOĞLU H., TÜRKER KAYA S.
TÜRK HİJYEN VE DENEYSEL BİYOLOJİ DERGİSİ, vol.76, no.1, pp.41-52, 2019 (Other Refereed National Journals)
- II. **Infrared spectroscopic imaging studies of medicinal plants**
TÜRKER KAYA S., HUCK PEZZEI V., HUCK C.
NIR NEWS, vol.29, no.4, pp.9-14, 2018 (Refereed Journals of Other Institutions)
- III. **Binding ability of lacosamide to phosphatidylcholine lipids and cholesterol effects**
YAĞIŞ B., TÜRKER KAYA S.
MEDENİYET MEDICAL JOURNAL, vol.33, no.3, pp.218-226, 2018 (Other Refereed National Journals)
- IV. **Application of infrared spectroscopy in the study of neurological diseases**
TÜRKER KAYA S.
BIOMEDICAL SPECTROSCOPY AND IMAGING, vol.1, pp.303-323, 2012 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Comparative Analysis of Different Regions of Rat Brain Tissue by FT-IR Spectroscopy**
TÜRKER KAYA S., Dağcı K., Yıldırım D., Şentürk D., İLBAY G.

Refereed Congress / Symposium Publications in Proceedings

- I. **PTZ ile indüklenen epileptik nöbetler sıçan beyin sağ ve sol hemisferlerin protein yapı ve içeriklerini farklı şekilde etkiler**
TÜRKER KAYA S.
2nd INTERNATIONAL ANKARA CONFERENCE ON SCIENTIFIC RESEARCH, Turkey, 6 - 08 March 2020
- II. **Analysis of rat blood plasma after acute epileptic seizures by infrared spectroscopy**
TÜRKER KAYA S., İLBAY G.
IV. International Scientific and Vocational Studies-Science and Health, Turkey, 7 - 10 November 2019
- III. **6 Aylık Wistar Ve WAG/Rij (Absans Epilepsili) sıçanların beyin bokularının FT-IR spektroskopisi ile karşılaştırılması olarak incelenmesi**
DAĞCI K., İLBAY G., TÜRKER KAYA S.
24. Ulusal Biyoloji kongresi, Turkey, 10 - 14 September 2018
- IV. **Chemotherapeutic agent carboplatin differently interacts with membrane lipids**
KINA A., TÜRKER KAYA S.
INTERNATIONAL CONFERENCE ON BIOLOGICAL SCIENCES, 21 - 23 October 2016
- V. **Morphological, anatomical and spectroscopic investigations of the toxic effects of roundup in sweet corn (Zea mays L. var saccharata Sturt cv. Merit)**
AKSOY Ö., TÜRKER KAYA S., Tütünoğlu B.
21. Ulusal Biyoloji Kongresi, Turkey, 3 - 07 September 2012, pp.432-433
- VI. **The investigation of the toxicity effects of herbicide roundup on cucumber (Cucumis sativus): cytological and spectroscopic study**
TÜRKER KAYA S., AKSOY Ö., Zengin M.
21. Ulusal Biyoloji Kongresi, Turkey, 3 - 07 September 2012, pp.367-368
- VII. **The effect of STZ-induced diabetes on lipid structure, function and composition of rat skeletal muscle: an FTIR study**
ERAR H., TÜRKER KAYA S., AKKAŞ S. B., YILMAZ Ö., SEVERCAN F.
WSEAS TRANSACTIONS on BIOLOGY and BIOMEDICINE, Greece, 20 - 22 September 2005, vol.2, pp.351-354
- VIII. **An FTIR approach to investigate molecular changes induced by epilepsy**
TÜRKER KAYA S., ATEŞ N., İLBAY G., güneş z., Kara N., SEVERCAN F.
WSEAS TRANSACTIONS on BIOLOGY and MEDICINE, Greece, 20 - 22 September 2005, vol.2, pp.355-358
- IX. **Kızılötesi spektroskopisinin bitki taksonomisinde kullanımı**
TÜRKER KAYA S., DOĞAN M., SEVERCAN F.
IX. Ulusal Spektroskopi Kongresi, Turkey, 9 - 11 June 2005

Supported Projects

TÜRKER KAYA S., Project Supported by Higher Education Institutions, TONİK-KLONİK EPİLEPTİK NÖBETLERİN SIÇAN SAĞ VE SOL BEYİN HEMİSFERLERİNDEKİ ETKİLERİNİN BİYOFİZİKSEL VE BİYOKİMYASAL YÖNTEMLER İLE İNCELENMESİ, 2018 - 2019

TÜRKER KAYA S., Project Supported by Higher Education Institutions, WİSTAR VE WAG/RİJ (ABSANS EPİLEPSİLİ) SIÇANLARDA BEYİN DOKUSUNDAKİ YAŞA BAĞLI DEĞİŞİKLİKLERİN FT-IR SPEKTROSKOPİSİ İLE ARAŞTIRILMASI, 2017 - 2019

TÜRKER KAYA S., Project Supported by Higher Education Institutions, AKCİĞER KANSERİ TEDAVİSİNDE KULLANILAN SİSPLATİN VE KARBOPLATİN İLAÇLARININ MEMBRAN LİPİTLERİ İLE ETKİLEŞMESİNİN BİYOFİZİKSEL YÖNTEMLERLE İNCELENMESİ, 2015 - 2016

TÜRKER KAYA S., Project Supported by Higher Education Institutions, Yeni Jenerasyon Antiepileptiklerin Hippokampus

ve Amigdala Üzerine Etkilerinin FTIR spektroskopisi ile Moleküler Düzeyde İncelenmesi, 2012 - 2014

Citations

Total Citations (WOS):86

h-index (WOS):4