

## Res. Asst. PhD Mine AKSOY

### Personal Information

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### Biography

He was born in 1984 in Erzurum. He completed his primary and high school education in Erzurum. She graduated from Atatürk University, Department of Chemistry in 2003 and completed university education in 2007. He received his master's degree in Biochemistry from Atatürk University, Faculty of Science. In the same year, he is continuing his PhD education in Department of Biochemistry in Department of Chemistry, Science Faculty of Atatürk University.

### Education Information

Doctorate, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Biyokimya, Turkey 2010 - 2016

Postgraduate, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Turkey 2007 - 2010

Undergraduate, Atatürk Üniversitesi, Fen Fakültesi, Kimya, Turkey 2003 - 2007

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, BAZI FLAVONOİDLERİN ANTiOKSiDAN KAPASİTELERİNİN BELİRLENMESİ VE İNSAN ERİTROSİTLERİNDE SAFLAŞTIRILAN GLUTATYON S-TRANSFERAZ ENZİM AKTİVİTESİ ÜZERİNE İNHİBİSYON ETKİLERİNİN İNCELENMESİ, Atatürk Üniversitesi, Fen Fakültesi, Kimya/Biyokimya, 2016

Postgraduate, TERMOFİLİK BREVİBACİLLUS BREVIS BAKTERİSİNDE PEKTİN LİYAZ ENZİMİNİN SAFLAŞTIRILMASI, KARAKTERİZASYONU ve BİTKİSEL YAĞ ELDESİNDE KULLANABİLİRLİĞİNİN İNCELENMESİ, Atatürk Üniversitesi, Fen Fakültesi, Kimya/Biyokimya, 2010

### Research Areas

Chemistry, Biochemistry, Enzyme Kinetics, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Ataturk University, Fen Fakültesi, Kimya, 2011 - Continues

### Courses

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

- I. **Using of group-based selected flavonoids as alternative inhibitors for potato polyphenol oxidase**  
AKSOY M., ÖZTEKİN A.  
JOURNAL OF FOOD BIOCHEMISTRY, 2021 (Journal Indexed in SCI)
- II. **The Construction and Testing of an Amperometric Biosensor for Oxidized Glutathione with Glutathione Reductase Immobilized on Reduced Graphene Oxide Paper Modified with Cobalt Sulphur**  
Aksoy M., Kiransan K.  
CHEMISTRYSELECT, vol.5, no.44, pp.13925-13935, 2020 (Journal Indexed in SCI)
- III. **A novel polyphenol oxidase immobilized polyglycine/reduced graphene oxide composite electrode for sensitive determination of catechol**  
Dağcı Kiranşan K., Aksoy M.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.50, no.8, pp.863-873, 2020 (Journal Indexed in SCI)
- IV. **A new insight into purification of polyphenol oxidase and inhibition effect of curcumin and quercetin on potato polyphenol oxidase**  
AKSOY M.  
PROTEIN EXPRESSION AND PURIFICATION, vol.171, 2020 (Journal Indexed in SCI)
- V. **Purification of tea leaf (Camellia sinensis) polyphenol oxidase by using affinity chromatography and investigation of its kinetic properties**  
Ozturk C., AKSOY M., KÜFREVİOĞLU Ö. İ.  
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.14, no.1, pp.31-38, 2020 (Journal Indexed in SCI)
- VI. **Inhibition effects of pesticides on glutathione-S-transferase enzyme activity of Van Lake fish liver**  
Ozaslan M. S. , Demir Y., AKSOY M., KÜFREVİOĞLU Ö. İ. , Beydemir S.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.32, no.9, 2018 (Journal Indexed in SCI)
- VII. **Inhibition of human erythrocyte glutathione S-transferase by some flavonoid derivatives**  
AKSOY M., Kufrevioglu I.  
TOXIN REVIEWS, vol.37, no.3, pp.251-257, 2018 (Journal Indexed in SCI)
- VIII. **Purification of glutathione S-transferase from Van Lake fish (Chalcalburnus tarichii Pallas) muscle and investigation of some metal ions effect on enzyme activity**  
AKSOY M., Ozaslan M. S. , KÜFREVİOĞLU Ö. İ.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.4, pp.546-550, 2016 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Bazı Doğal Bileşikler ve Benzentiyol ile Polifenol Oksidaz İnhibisyonu Yoluyla Enzimatik Kararmanın Önlenmesi**  
AKSOY M.  
European Journal of Science and Technology, no.20, pp.723-727, 2020 (Other Refereed National Journals)

### Refereed Congress / Symposium Publications in Proceedings

- I. **INHIBITION EFFECT OF FLAVONOIDS DERIVATES ON HUMAN ERYTHROCYTE GLUTATHIONE S-TRANSFERASE**  
AKSOY M.

2nd INTERNATIONAL APPLIED SCIENCES CONGRESS, 27 March 2021

- II. **Ev Yapımı Sirke Türleriyle Enzimatik Kararmanın Önlenmesi**  
AKSOY M.  
31. Ulusal Kimya Kongresi, 10 September 2019
- III. **Polifenol Oksidaz Enziminin Bazı Kalkon Türleriyle İnhibisyonu**  
YILMAZ C., BAYRAK S., AKSOY M., KÜFREVOĞLU Ö. İ.  
European Conference on Science, Art Culture, 19 - 22 April 2018
- IV. **FLEXIBLE AND FREESTANDING CATALASE-Fe<sub>3</sub>O<sub>4</sub>/REDUCED GRAPHENE OXIDE HYBRIDE PAPER: ENZYMATIC HYDROGEN PEROXIDE SENSOR APPLICATIONS**  
DAĞCI KIRANŞAN K., AKSOY M., TOPÇU E.  
International DNA Day and Genom Congress, 24 - 28 April 2017
- V. **Inhibition of Human Erythrocyte Glutathione S-Transferase by Some Flavonoids Derivates**  
AKSOY M., KÜFREVOĞLU Ö. İ.  
INTERNATIONAL DNA DAY AND GENOME CONGRESS (IDDGC) 2017, 24 - 28 April 2017
- VI. **Flexible and Electrically Conductive Fe<sub>3</sub>O<sub>4</sub> rGO Paper Electrode and Its Catalytical Application**  
DAGCI K., TOPÇU E., AKSOY M., ALANYALIOĞLU M.  
Graphene Turkey, 20 - 21 October 2016
- VII. **İnsan Eritrositlerinden Saflaştırılan Glutatyon S-Transferaz Enzim Aktivitesi Üzerine Kurkumin, Kuersetin ve Resveratrol Fenolik Bileşiklerinin İnhibisyon Etkilerinin İncelenmesi**  
AKSOY M., GÜLLER P., GÜLLER U., KÜFREVOĞLU Ö. İ.  
16. Kromatografi Kongresi, Turkey, 31 August - 02 September 2016
- VIII. **İnsan eritrositlerinden saflaştırılan Glutatyon redüktaz enzimi aktivitesi üzerine bazı fenolik bileşiklerin etkilerinin incelenmesi**  
GÜLLER U., AKSOY M., GÜLLER P., KÜFREVOĞLU Ö. İ.  
16. Kromatografi Kongresi, Turkey, 31 August - 02 September 2016
- IX. **İnsan eritrositlerinden saflaştırılan glutatyon S transferaz enzim aktivitesi üzerine kurkumin kuersetin ve resveratrol fenolik bileşiklerinin inhibisyon etkilerinin incelenmesi**  
AKSOY M., GÜLLER P., GÜLLER U., KÜFREVOĞLU Ö. İ.  
16. Kromatografi Kongresi, Turkey, 31 August - 02 September 2016
- X. **In Situ Synthesized rGO Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanocomposites for Immobilization of Carbonic Anhydrase**  
AKSOY M., DAĞCI K., KÜFREVOĞLU Ö. İ.  
11th International Conference on Protein Stabilisation, İstanbul, Turkey, 9 - 11 May 2016
- XI. **In Vitro Antioxidant Profiles of Some Flavonoids**  
AKSOY M., GÜLÇİN İ., KÜFREVOĞLU Ö. İ.  
International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726
- XII. **INVESTIGATION OF THE EFFECTS OF EXTRACTS FROM SOME DIURETICS PLANTS ON THE ACTIVITY OF HUMAN ERYTHROCYTES CARBONIC ANHYDRASE II**  
AKSOY M., TAŞER P., GÜLLER U., KÜFREVOĞLU Ö. İ., ÇİFTÇİ M.  
MESMEP 2015, Antalya, Turkey, 22 - 25 April 2015
- XIII. **Glutatyon S Transferaz enziminin van balığı kas dokusundan saflaştırılması ve bazı metal iyonlarının enzim aktivitesi üzerine etkilerinin incelenmesi**  
AKSOY M., ÖZASLAN S., KÜFREVOĞLU Ö. İ.  
15.Ulusal Kromatografi Kongresi, Turkey, 8 - 10 April 2015
- XIV. **Glutatyon S Transferaz Enziminin Van Balığı Kas Dokusundan Saflaştırılması ve Bazı Metal İyonlarının Enzim Aktivitesi Üzerine Etkilerinin İncelenmesi**  
AKSOY M., SERHAT Ö., KÜFREVOĞLU Ö. İ.  
KROMATOGRAFİ 2015, Turkey, 8 - 10 April 2015
- XV. **İnsan eritrosit glutatyon redüktaz enziminin saflaştırılması ve bazı fenolik maddelerin enzim aktivitesi üzerine inhibisyon etkisinin incelenmesi**  
AKSOY M., GÜLÇİN İ., KÜFREVOĞLU Ö. İ.

Kromatografi 2013, Bursa, Turkey, 19 - 22 June 2013, pp.192

- XVI. **Investigation of inhibitory effect of phenol 2 fluorophenol and 3 fluorophenol on carbonic anhydrase isoenzymes I and II** The 9th International Conference on the Carbonic Anhydrase CA AKSOY M., ANNAKAYA P., HAN H., GÜLÇİN İ., KÜFREVİOĞLU Ö. İ.  
The 9th International Conference on the Carbonic Anhydrase (CA), Antalya, Turkey, 11 - 15 April 2012

## Supported Projects

- AKSOY M., DAĞCI KIRANŞAN K., Project Supported by Higher Education Institutions, Glutasyon Redüktaz İmmobilize Esnek GrafenCoS Kçit Elektrotun Hazırlanması Karakterizasyonu ve Glutasyon Tayininde Kullanılabilirliğinin Spektrofotometrik ve Elektrokimyasal Olarak Araştırılması, 2018 - 2019
- DAĞCI KIRANŞAN K., AKSOY M., Project Supported by Higher Education Institutions, KATALAZ İMMOBİLİZASYONU İÇİN GRAFEN/FE3O4 NANAOKOMPOZİT KAĞIT ELEKTROTLARIN HAZIRLANMASI VE AMPEROMETRİK UYGULAMALARININ ARAŞTIRILMASI, 2016 - 2018
- KÜFREVİOĞLU Ö. İ. , AKSOY M., ÖZASLAN M. S. , Project Supported by Higher Education Institutions, GLUTATYON S-TRANSFERAZ ENZİMİNİN VAN GÖLÜ BALIĞI (CHALCALBURNUS TARİCHİ PALLAS) KARACİĞERİNDEN SAFLAŞTIRILMASI, TARIM İLACI OLARAK KULLANILAN BAZI PESTİSİTLERİN VE KİMYASALLARIN ENZİM AKTİVİTESİ ÜZERİNE ETKİLERİNİN İNCELENMESİ, 2015 - 2017
- KÜFREVİOĞLU Ö. İ. , AKSOY M., Project Supported by Higher Education Institutions, TORTUM ELMASINDAN POLİFENOL OKSİDAZ ENZİMİNİN SAFLAŞTIRILMASI KARAKTERİZASYONU VE BAZI KİMYASALLARIN ETKİSİNİN İNCELENMESİ, 2013 - 2016
- ŞAKİROĞLU H., AKSOY M., Project Supported by Higher Education Institutions, BAZI FLAVONOİD VE ŞALKONLARIN ANTİOKSİDAN VE ANTİRADİKAL KAPASİTELERİNİN BELİRLENMESİ, İNSAN KARBONİK ANHİDRAZ I VE II İZOENZİMLERİNİN İNHİBİSYON ETKİLERİNİN İNCELENMESİ, 2012 - 2015

## Scientific Refereeing

- Journal of Biochemical and Molecular Toxicology, SCI Journal, July 2018
- Project Supported by Higher Education Institutions, May 2018
- Journal of Biochemical and Molecular Toxicology, SCI Journal, February 2018
- Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi , National Scientific Refreed Journal, February 2018

## Edit Congress and Symposium Activities

- European Conference On Science, Art & Culture, Attendee, Antalya, Turkey, 2018
- International Dna Day And Genome Congress, Attendee, Kırşehir, Turkey, 2017
- 3rd Emerging 2D Materials& Graphene Conference, Attendee, Turkey, 2016
- Kromatografi Kongresi, Attendee, Malatya, Turkey, 2016
- 11th International Conference on Protein Stabilisation, Attendee, İstanbul, Turkey, 2016
- International Conference on Advances in Natural and Applied Sciences, Attendee, Turkey, 2016
- 2nd Mediterranean Symposium on Medicinal and Aromatic Plants, Attendee, Turkey, 2015
- Kromatografi Kongresi, Attendee, Uşak, Turkey, 2015
- Kromatografi Kongresi, Attendee, Bursa, Turkey, 2013
- 9th International Conference on Carbonic Anhydrase (CA), Attendee, Antalya, Turkey, 2012
23. Ulusal Kimya Kongresi, Attendee, Sivas, Turkey, 2009

## Citations

Total Citations (WOS):68

h-index (WOS):5