

## Prof. AYDIN AKBULUT

### Personal Information

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### Education Information

Doctorate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1995 - Continues

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 1987 - 1991

### Dissertations

Doctorate, Tuz Gölü Havzasındaki Bazı Göllerin (Tuz Gölü, Uyuz Gölü, Çöl Gölü, Tersakan Gölü, Hirfanlı Baraj Gölü) Planktonik Bacillariophyceae (Diyatom) Üyelerinin Sistematik Olarak İncelenmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Genel Biyoloji (YI) (Tezli), 2001

Postgraduate, Sultansazlığı Fitoplanktonik Organizmalarının Tesbiti ve Ekolojik Açından Değerlendirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Genel Biyoloji (YI) (Tezli), 1995

### Research Areas

Life Sciences, Hydrobiology, Limnology, Natural Sciences

### Supervised Theses

AKBULUT A., Türkiye'nin Batı Karadeniz Sahil Şeridinin Su ve Sediman Kalitesi Açısından Değerlendirmesi, Postgraduate, Ö.Sakaoğlu(Student), 2018

Varol Muratçay E., Akbulut A., Marmara denizi güneyi (Kocasu deltası) sedimentlerinde ağır metal kirliliğinin araştırılması, Postgraduate, H.PEHLİVAN(Student), 2017

SANİN S. L., AKBULUT A., Arthrospira platensis Gomont 1892 ve Chlorella vulgaris Beyerinck [Beijerinck] 1890 türlerinin nütrient giderim kapasitelerinin karşılaştırılması, Postgraduate, R.REZAEI(Student), 2016

AKBULUT A., Eğrekkaya baraj gölü diatom türleri (Kızılcahamam -Ankara), Postgraduate, A.ALHAMADİ(Student), 2014

AKBULUT A., Tuz Gölü, Kulu Gölü ve Kozanlı Saz Gölü heterotrof flagellatlarının sistematik açıdan incelenmeleri, Doctorate, E.ELİF(Student), 2012

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

- I. **Removal of various phenolic compounds from solution using free and entrapped *Lentinus sajor-caju***  
BAYRAMOĞLU G., Erkaya-Acikgoz I., AKBULUT A., Arica M.  
International Journal of Environmental Science and Technology, vol.20, no.8, pp.9001-9012, 2023 (SCI-Expanded)
- II. **A multi-proxy record of palaeoenvironmental and palaeoclimatic conditions during Plio-Pleistocene peat accumulation in the eastern flank of the Isparta Angle: A case study from the Şarkikaraağaç coalfield (Isparta, SW Central Anatolia)**

TUNCER A., KARAYIĞIT A. İ., OSKAY R. G., TUNOĞLU C., KAYSERİ ÖZER M. S., GÜMÜŞ B. A., Bulut Y., AKBULUT A.  
International Journal of Coal Geology, vol.265, 2023 (SCI-Expanded)

- III. **Lowstand lake conditions in NW Anatolia during the Little Ice Age: Multi-proxy evidence from Lake Sunnet**  
OCAKOĞLU F., AKBULUT A., OYBAK DÖNMEZ E., TUNCER A., TUNOĞLU C., Acikalin S., Erayik C.  
HOLOCENE, vol.32, no.9, pp.935-949, 2022 (SCI-Expanded)
- IV. **Lake level changes and paleo-precipitation estimations based on colluvial stratigraphy of Holocene sediments in West Anatolia (Simav Graben)**  
OCAKOĞLU F., Kuzucuoğlu C., AKBULUT A., ÇİLİNGİROĞLU Ç.  
Palaeogeography, Palaeoclimatology, Palaeoecology, vol.597, 2022 (SCI-Expanded)
- V. **Immobilization of Candida rugosa Lipase on Magnetic Biosilica Particles: Hydrolysis and Transesterification Studies**  
Acikgoz-Erkaya I., BAYRAMOĞLU G., AKBULUT A., Arica M. Y.  
BIOTECHNOLOGY AND BIOPROCESS ENGINEERING, vol.26, no.5, pp.827-840, 2021 (SCI-Expanded)
- VI. **Vegetation record of the last three millennia in central Anatolia: Archaeological and palaeoclimatic insights from Moagn Lake (Ankara, Turkey)**  
Dönmez E. O., OCAKOĞLU F., AKBULUT A., TUNOĞLU C., GÜMÜŞ B. A., TUNCER A., Görüm T., Tün M.  
Quaternary Science Reviews, vol.262, 2021 (SCI-Expanded)
- VII. **Utilization of immobilized horseradish peroxidase for facilitated detoxification of a benzidine based azo dye**  
BAYRAMOĞLU G., AKBULUT A., ARICA M.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.165, pp.435-444, 2021 (SCI-Expanded)
- VIII. **Investigation of heavy metal pollution in sediments of southern Marmara sea (the Kocasu Delta)**  
Pehlivan H., AKBULUT A., Varol E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.3, pp.1272-1288, 2021 (SCI-Expanded)
- IX. **Carbon dioxide capture with microalgae species in continuous gas-supplied closed cultivation systems**  
Aghaalipour E., AKBULUT A., GÜLLÜ G.  
BIOCHEMICAL ENGINEERING JOURNAL, vol.163, 2020 (SCI-Expanded)
- X. **Effect of algae acclimation to the wastewater medium on the growth kinetics and nutrient removal capacity**  
REZAEİ R., AKBULUT A., SANİN S. L.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, no.11, 2019 (SCI-Expanded)
- XI. **Biodegradation of Cibacron Blue 3GA by insolubilized laccase and identification of enzymatic byproduct using MALDI-ToF-MS: Toxicity assessment studies by Daphnia magna and Chlorella vulgaris**  
BAYRAMOĞLU G., SALIH B., AKBULUT A., ARICA M. Y.  
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.170, pp.453-460, 2019 (SCI-Expanded)
- XII. **Uranium sorption by native and nitrilotriacetate-modified Bangia atropurpurea biomass: kinetics and thermodynamics**  
Bayramoglu G., AKBULUT A., Acikgoz-Erkaya I., Arica M. Y.  
JOURNAL OF APPLIED PHYCOLOGY, vol.30, no.1, pp.649-661, 2018 (SCI-Expanded)
- XIII. **Removal of metal complexed azo dyes from aqueous solution using tris(2-aminoethyl)amine ligand modified magnetic p(GMA-EGDMA) cationic resin: Adsorption, isotherm and kinetic studies**  
Bayramoglu G., AKBULUT A., Liman G., Arica M. Y.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.124, pp.85-97, 2017 (SCI-Expanded)
- XIV. **Aminopyridine modified Spirulina platensis biomass for chromium(VI) adsorption in aqueous solution**  
BAYRAMOĞLU G., AKBULUT A., ARICA M. Y.  
WATER SCIENCE AND TECHNOLOGY, vol.74, no.4, pp.914-926, 2016 (SCI-Expanded)

- XV. **A 2800-year multi-proxy sedimentary record of climate change from Lake Cubuk (Goynuk, Bolu, NW Anatolia)**  
Ocakoglu F., DOENMEZ E. O., AKBULUT A., TUNOĞLU C., Kir O., ACIKALIN S., Erayik C., Yilmaz I. O., LEROY S. A. G. HOLOCENE, vol.26, no.2, pp.205-221, 2016 (SCI-Expanded)
- XVI. **Characterization of the Embryonic and Larval Development of Wild Pike-Barb (*Luciobarbus esocinus*) Biological Parameters, and the Possibility of Breeding**  
Ozgun M. E., AKBULUT A., Demirsoy A.  
ISRAELI JOURNAL OF AQUACULTURE-BAMIDGEH, vol.68, 2016 (SCI-Expanded)
- XVII. **Study of polyethyleneimine- and amidoxime-functionalized hybrid biomass of *Spirulina (Arthrospira) platensis* for adsorption of uranium (VI) ion**  
BAYRAMOĞLU G., AKBULUT A., ARICA M. Y.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.22, pp.17998-18010, 2015 (SCI-Expanded)
- XVIII. **Immobilized lipase on micro-porous biosilica for enzymatic transesterification of algal oil**  
Bayramoglu G., AKBULUT A., Özalp V. C., Arica M. Y.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.95, pp.12-21, 2015 (SCI-Expanded)
- XIX. **Biosorption of uranium(VI) by free and entrapped *Chlamydomonas reinhardtii*: kinetic, equilibrium and thermodynamic studies**  
Erkaya I. A., Arica M. Y., AKBULUT A., Bayramoglu G.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.299, no.3, pp.1993-2003, 2014 (SCI-Expanded)
- XX. **Immobilization of tyrosinase on modified diatom biosilica: Enzymatic removal of phenolic compounds from aqueous solution**  
BAYRAMOĞLU G., AKBULUT A., ARICA M. Y.  
JOURNAL OF HAZARDOUS MATERIALS, vol.244, pp.528-536, 2013 (SCI-Expanded)
- XXI. **SOME QUALITY PARAMETERS OF SURFACE WATER OF KARASU RIVER IN UPPER PART OF EUPHRATES BASIN, TURKEY**  
Ozgun M. E., Akbulut A., Demirsoy A.  
CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, vol.7, no.3, pp.183-192, 2012 (SCI-Expanded)
- XXII. **Rivers of Turkey**  
AKBULUT N., Bayari S., Akbulut A., ŞAHİN Y.  
RIVERS OF EUROPE, 1ST EDITION, pp.643-672, 2009 (SCI-Expanded)
- XXIII. **Distribution and status of the medicinal leech (*Hirudo medicinalis* L.) in Turkey**  
KASPAREK M., DEMIRSOY A., Akbulut A., AKBULUT N., CALISKAN M., DURMUS Y.  
HYDROBIOLOGIA, vol.441, pp.37-44, 2000 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Journey to natural history museum in perspective of children**  
EVREN YAPICIOĞLU A., ATMACA YILDIZ S., AKBULUT A., CEYHAN G. D., DURMUŞ Y., AKAYDIN G., DEMİRSOY A.  
EUROPEAN JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.5, pp.365-375, 2017 (Scopus)
- II. **The evaluation of the water quality and trace metal concentration through the Kızılırmak river of Turkey**  
AKBULUT N., AKBULUT A., ATASAGUN S., ARSLAN N.  
water resources and wetlands, vol.3, pp.99-106, 2016 (Peer-Reviewed Journal)
- III. **Macrozoobenthos of lake Uluabat Turkey related to some physical and chemical parameters**  
ÇELİK K., AKBULUT N., AKBULUT A., özatlı d.  
Pan American journal of aquatic sciences, vol.5, no.4, pp.520-529, 2010 (Scopus)

## Books

### I. RIVERS OF TURKEY

AKBULUT N., BAYARI C. S., AKBULUT A., YALCIN S.

in: RIVERS OF EUROPA, KLEMENT TOCHNER, URS UEHLINGER, CHRISTOPHER T. ROBINSON, Editor, Elsevier, pp.643-672, 2009

## Papers Published in Refereed Scientific Meetings

### I. MICROFAUNA AND MICROFLORA ASSEMBLAGES OF THE ŞARKIKARAAĞAÇ COAL-BEARING SUCCESSION (ISPARTA, SW ANATOLIA): MULTI-PROXY PALEOENVIRONMENTAL AND PALEOCLIMATIC INTERPRETATIONS

TUNCER A., TUNOĞLU C., KARAYİĞİT A. İ., KAYSERİ ÖZER M. S., OSKAY R. G., GÜMÜŞ B. A., AKBULUT A., Bulut Y.  
3rd Palaeontological Virtual Congress, Spain, 1 - 15 December 2021, pp.279

### II. Application of Existing IBM (Individual-Based Model) Model Instream for Trout Population Modeling of Salmo labrax in Solaklı River

REZAEİ R., ŞENGÜL H., AKBULUT A., ZENGİN M., ÖZCAN AKPINAR İ.

13th International Symposium on Fisheries and Aquatic Sciences, 21 - 23 November 2018

### III. The Evaluation of the water quality and Trace metal concentration Through The Kızılırmak River of Turkey

AKBULUT N., AKBULUT A., Atasagun S., Arslan N.

Water Research and Wetlands, Tulcea, Romania, 08 September 2018, pp.99-106

### IV. REKLI FOTOBIOREAKTOR SİSTEMLERİNDE ÜRETİLEN KARIŞIK MIKROALG KULTURU KULLANILARAK CO<sub>2</sub> GİDERİM ORANLARININ İNCELENMESİ

AGHAALIPOUR E., AKBULUT A., GÜLLÜ G.

VII. ULUSAL HAVA KİRLİLİĞİ VE KONTROLÜ SEMPOZYUMU, Turkey, 1 - 03 November 2017

### V. THE EVALUATION OF THE WATER QUALITY AND TRACE METAL CONCENTRATION THROUGH THE KIZILIRMAK RIVER OF TURKEY

AKBULUT N., AKBULUT A., ATASAĞUN S., ARSLAN N.

3rd International Conference on "Water resources and wetlands", Tulcea, Romania, 8 - 10 September 2016, pp.99-106

### VI. Nanoscopic SAXS analyses of Spirogyra sp as green filamentous algae

orijalipoor I., İDE S., AKBULUT N., AKBULUT A.

SEFS9 Semposium for European Freshwater Science, Geneva, Switzerland, 5 - 10 July 2015

### VII. Distribution of ostracod and diatom assemblages in Beyler Dam Pond Kastamonu Northern Turkey

TUNOĞLU C., TUNCER A., AKBULUT A., GÜMÜŞ H., KÖSE T., ŞALIŞ K.

8th European Ostracodologists' Meeting, 22 - 30 July 2015

### VIII. Journey to Natural History Museum in Perspective of Children

ATMACA S., EVREN A., CEYHAN G. D., AKBULUT A., DURMUŞ Y., AKAYDIN G., Ali D.

Cyprus International Conference on Educational Research, Güzelyurt, Cyprus (Kktc), 8 - 10 February 2012

### IX. A Akbulut N E Akbulut C N Solak S Günsel 2011 Use of epilithic diatoms to evaluate water quality of the Delice River kızılırmak in Turkey Symposium for European Freshwater Science 27 Haziran 1 Temmuz Girona İspanya Oral

AKBULUT A., AKBULUT N., Cüneyt Nadir S., selgün g.

Symposium for European Freshwater Science, Girona, Spain, 27 June - 01 July 2011

### X. Nuray Emir Akbulut Aydın Akbulut The study of heavy metal pollution and accumulation in water sediment and fish tissue in Kızılırmak River Basin in Turkey Romanya Sinaia 16 22 Ağustos 2009

AKBULUT N., AKBULUT A.

SEFS-6: Semposium For European Freshwater Science, Sinaia, Romania, 19 - 21 August 2009

### XI. The determination of relationship between phytoplankton and ağabeyotic variables in Ova Stream

**Ankara Turkey 12 15 September 2006**

AKBULUT A., AKBULUT N.

6th International symposium use of algae for monitoring rivers, Balatonföhred, 12 - 15 October 2006

XII. **Akbulut E N Akbulut A Park Y S Plankton distribution in the shallow lake Uluabat in Turkey**

AKBULUT N., AKBULUT A., Yeung Seuk P.

Shallow lakes 2005, Dalfsen, 5 - 09 July 2005

## **Supported Projects**

ŞENGÜL H., ZENGİN M., AKBULUT A., REZAEİ R., ÖZCAN AKPINAR İ., Project Supported by Higher Education Institutions, Solaklı Havzasında Ekosisteme UzunDönemli Kümülatif Etkilerin inSTREAM Etmen Tabanlı Model ile Araştırılması, 2015 - 2018

AKBULUT A., Project Supported by Higher Education Institutions, 7 Uluslararası Alg Biyoması Biyoyakıt ve Biyolojik ürünler Kongresi 18-21 Haziran Miami FL USA, 2017 - 2017

AKBULUT A., Project Supported by Higher Education Institutions, New York International Business and Social Science Research Conference NYIBSRC 2016 (New York Uluslararası İş ve Sosyal Bilimler Araştırma Konferansı), 2016 - 2017

AKBULUT A., Project Supported by Higher Education Institutions, Toprak Mikroorganizmalarının Ekolojisi, 2015 - 2016

AKBULUT A., Project Supported by Higher Education Institutions, İletişim ve Medya alanında Uluslararası Eğilimler ve Konular Konferansı, 2015 - 2016

AKBULUT A., Project Supported by Higher Education Institutions, MODİFİYE ALG BİYOKÜTLESİNİN URANYUM İYONLARININ GERİ KAZANIMINDA KULLANILMASI, 2014 - 2016

AKBULUT A., TUBITAK Project, Türkiye deki Volkanik Krater Göllerinin Algolojik Yapısının Belirlenmesi mikroalg kütüphanesi Oluşturulması ve Kültüre Alınan Mikroalglerin Endüstriyel Potansiyellerinin Değerlendirilmesi, 2013 - 2016

ÖZDAĞ U., AKBULUT A., Project Supported by Higher Education Institutions, Anadolu Turnaları: Biyoloji, Kültür, Koruma, 2015 - 2015

AKBULUT A., Project Supported by Higher Education Institutions, Chlorella vulgaris Beyerinck [Beijerinck] 1890 ve Arthrospira platensis Gomont 1892 Türlerinin Atıksu Arıtım Potansiyellerinin Karşılaştırılması, 2014 - 2015

AKBULUT A., TUBITAK Project, Türkiye deki CITES Kapsamına Giren Türlerle İlişkin Veri Tabanı Oluşturulması, 2003 - 2005

AKBULUT A., TUBITAK Project, Türkiye deki Tıbbi Sülüğün (Hirudo medicinalis) Populasyon Durumunun İzlenmesi, 2003 - 2005

AKBULUT A., Other International Funding Programs, Population Assessment of the Medicinal Leech Hirudo medicinalis in Turkey Sustainable Utilisation of the Medicinal Leech Hirudo medicinalis in Turkey, 1997 - 1999

## **Metrics**

Publication: 43

Citation (WoS): 305

Citation (Scopus): 181

H-Index (WoS): 12

H-Index (Scopus): 7

## **Non Academic Experience**

Gazi Üniversitesi, Öğretim Üyesi/Doçent