

Kimlik Bilgileri

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Eğitim Bilgileri

| Mezuniyet Bilgileri | Üniversite Fakülte/Enstitü | Bölüm/Anabilim |
|---------------------|---|---|
| Lisans | Fırat Üniversitesi, Su Ürünleri Fakültesi | |
| Yüksek Lisans | Fırat Üniversitesi, Fen Bilimleri Enstitüsü | Su Ürünleri Temel Bilimler Bölümü |
| Doktora | Fırat Üniversitesi, Fen Bilimleri Enstitüsü | Su Ürünleri Temel Bilimler Bölümü |
| Doçentlik | İnönü Üniversitesi, Su Ürünleri Fakültesi | Su Ürünleri Avlama ve İşleme Teknolojisi Bölümü |

Kadro Bilgileri

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| Fakülte/YO/MYO/vb. | Su Ürünleri Fakültesi |
| Bölümü / Uzmanlık Alanı | Su Ürünleri Avlama ve İşleme Teknolojisi Bölümü |
| Anabilim Dalı | Su Ürünleri Avlama ve İşleme Teknolojisi Anabilim Dalı |
| Kadro Unvanı | Doç. Dr. |
| Verdiği Dersler | Limnoloji, Su Kalitesi, Plankton Bilgisi |

Bilimsel Çalışmalar

A- Uluslararası Hakemli Dergilerde (SCI ve SCI-E) Yayımlanan Makaleler

1- Varol, M. ve M.R. Sünbül, “Macroelements and toxic trace elements in muscle and liver of fish species from the largest three reservoirs in Turkey and human risk assessment based on the worst-case scenarios”, *Environmental Research*, **184**, 109298 (2020).

2- Varol, M., Ö. Canpolat, K. K. Eriş ve M. Çağlar, “Trace metals in core sediments from a deep lake in eastern Turkey: Vertical concentration profiles, eco-environmental risks and possible sources”, *Ecotoxicology and Environmental Safety*, **189**, 110060 (2020).

3- Varol, M., M.R. Sünbül, H. Aytıp ve C.H. Yılmaz, “Environmental, ecological and health risks of trace elements, and their sources in soils of Harran Plain, Turkey”, *Chemosphere*, **245**, 125592 (2020).

4- Varol, M., “Impacts of cage fish farms in a large reservoir on water and sediment chemistry”, *Environmental Pollution*, **252**, 1448-1454 (2019).

5- Varol, M., “Arsenic and trace metals in a large reservoir: Seasonal and spatial variations, source identification and risk assessment for both residential and recreational users”, *Chemosphere*, **228**, 1-8 (2019).

6- Varol, M., “CO₂ emissions from hydroelectric reservoirs in the Tigris River basin, a semiarid region of southeastern Turkey”, *Journal of Hydrology*, **569**, 782-794 (2019).

7- Varol, M. ve M.R. Sünbül, “Environmental contaminants in fish species from a large dam reservoir and their potential risks to human health”, *Ecotoxicology and Environmental Safety*, **169**, 507–515 (2019).

- 8- Varol, M.**, “Phytoplankton functional groups in a monomictic reservoir: seasonal succession, ecological preferences, and relationships with environmental variables”, *Environmental Science and Pollution Research*, **26**, 20439–20453 (2019).
- 9- Varol, M.**, “Stream inputs to Lake Hazar (Eastern Anatolia-Turkey)”, *Environmental Engineering and Management Journal*, **18**, 185-194 (2019).
- 10- Varol, M.** ve M.R. Sünbül, “Biomonitoring of trace metals in the Keban Dam Reservoir (Turkey) using mussels (*Unio elongatulus eucirrus*) and crayfish (*Astacus leptodactylus*)”, *Biological Trace Element Research*, **185(1)**, 216-224 (2018).
- 11- Varol, M.** ve M.R. Sünbül, “Multiple approaches to assess human health risks from carcinogenic and non-carcinogenic metals via consumption of five fish species from a large reservoir in Turkey”, *Science of the Total Environment*, **633**, 684-694 (2018).
- 12- Varol, M.**, S. Blanco, K., Alpaslan ve G. Karakaya, “New records and rare taxa for the freshwater algae of Turkey from the Tatar Dam Reservoir (Elazığ)”, *Turkish Journal of Botany*, **42(4)**, 533-542 (2018).
- 13- Varol, M.**, G. K. Kaya, S. A. Alp ve M.R. Sünbül, “Trace metal levels in rainbow trout (*Oncorhynchus mykiss*) cultured in net cages in a reservoir and evaluation of human health risks from consumption”, *Biological Trace Element Research*, **184 (1)**, 268-278 (2018).
- 14- Varol, M.** ve B. Şen, "Abiotic factors controlling the seasonal and spatial patterns of phytoplankton community in the Tigris River, Turkey", *River Research and Applications*, **34**, 13-23 (2018).
- 15- Varol, M.** ve M. R. Sünbül, "Organochlorine pesticide, antibiotic and heavy metal residues in mussel, crayfish and fish species from a reservoir on the Euphrates River, Turkey", *Environmental Pollution*, **230**, 311-319 (2017).
- 16- Bekleyen, A.**, B. Gökot ve **M. Varol**, "First Record of the Genus *Phyllodiaptomus* Kiefer (Copepoda, Calanoida, Diaptomidae) from Turkey", *Turkish Journal of Fisheries and Aquatic Sciences*, **17**, 445-447(2017).
- 17- Varol, M.** ve S. Li, "Biotic and abiotic controls on CO₂ partial pressure and CO₂ emission in the Tigris River, Turkey", *Chemical Geology*, **449**, 182-193 (2017).
- 18- Varol, M.** ve M. R. Sünbül, "Comparison of heavy metal levels of farmed and escaped farmed rainbow trout and health risk assessment associated with their consumption", *Environmental Science and Pollution Research*, **24**, 23114-23124 (2017).
- 19- Varol, M.**, G. K. Kaya ve A. Alp, "Heavy metal and arsenic concentrations in rainbow trout (*Oncorhynchus mykiss*) farmed in a dam reservoir on the Fırat (Euphrates) River: Risk-based consumption advisories", *Science of the Total Environment*, **599-600**, 1288-1296 (2017).
- 20- Varol, M.** ve B. Şen, "New Records of Euglenophyceae for Turkish Freshwater Algae", *Turkish Journal of Fisheries and Aquatic Sciences*, **16**, 219-225 (2016).
- 21- Varol, M.**, "External morphological variations and temporal distribution of the dinoflagellate *Ceratium hirundinella* in two dam reservoirs in the Tigris River basin (Turkey)", *Turkish Journal of Botany*, **40**, 112-119 (2016).
- 22- Varol, M.**, B. Gökot ve A. Bekleyen, "Dissolved heavy metals in the Tigris River (Turkey): spatial and temporal variations", *Environmental Science and Pollution Research*, **20**, 6096-6108 (2013).
- 23- Varol, M.**, "Temporal and spatial dynamics of nitrogen and phosphorus in surface water and sediments of a transboundary river located in the semi-arid region of Turkey", *Catena*, **100**, 1-9 (2013).
- 24- Varol, M.**, B. Gökot, A. Bekleyen ve B. Şen, "Geochemistry of the Tigris River basin, Turkey: Spatial and seasonal variations of major ion compositions and their controlling factors", *Quaternary International*, **304**, 22-32 (2013).
- 25- Varol, M.**, "Dissolved heavy metal concentrations of the Kralkızı, Dicle and Batman dam reservoirs in the Tigris River basin, Turkey", *Chemosphere*, **93**, 954-962 (2013).
- 26- Varol, M.**, B. Gökot, A. Bekleyen ve B. Şen, "Spatial and temporal variations in surface water quality of the dam reservoirs in the Tigris River basin, Turkey", *Catena*, **92**, 11-21 (2012).
- 27- Varol, M.**, B. Gökot, A. Bekleyen ve B. Şen, "Water quality assessment and apportionment of pollution sources of Tigris River (Turkey) using multivariate statistical techniques - a case study", *River Research and Applications*, **28**, 1428-1438 (2012).
- 28- Varol, M.** ve B. Şen, "Assessment of nutrient and heavy metal contamination in surface water and sediments of the upper Tigris River, Turkey", *Catena*, **92**, 1-10 (2012).
- 29- Varol, M.**, A. Bekleyen, B. Şen ve B. Gökot, "First record of the order Choanoflagellida in Turkey", *Turkish Journal of Fisheries and Aquatic Sciences*, **11**, 669-672 (2011).

30- Bekleyen, A., **M. Varol**, B. Gökot, "A new record of the freshwater jellyfish *Craspeducusta sowerbii* Lankester, 1880 (Hydrozoa) in Southeastern Anatolia (Turkey)", *Chinese Journal of Oceanology and Limnology*, **29**, 366-368 (2011).

31- **Varol, M.**, "Assessment of heavy metal contamination in sediments of the Tigris River (Turkey) using pollution indices and multivariate statistical techniques", *Journal of Hazardous Materials*, **195**, 355-364 (2011).

32- **Varol, M.** ve B. Şen, "Assessment of surface water quality using multivariate statistical techniques: a case study of Behrimaz Stream, Turkey", *Environmental Monitoring and Assessment*, **159**, 543-553 (2009).

B- Uluslararası Diğer Hakemli Dergilerde Yayımlanan Makaleler

1- Varol, M. ve K. Fucikova, "Four New Records for the Freshwater Algae of Turkey", *Journal of Limnology and Freshwater Fisheries Research*, **1**, 83-88 (2015).

2- Bekleyen, A., B. Gökot ve **M. Varol**, "Thirty-four new records and the diversity of the Rotifera in the Turkish part of the Tigris River watershed, with remarks on biogeographically interesting taxa", *Scientific Research and Essays*, **6**, 6270-6284 (2011).

3- Varol, M., B. Gökot ve A. Bekleyen, "Assesment of Water Pollution in the Tigris River in Diyarbakır, Turkey", *Water Practice & Technology*, **5** (2010).

4- Varol, M., Y. A. Mazei ve A. Bekleyen, "First records of freshwater testate amoebae in Turkey", *University Proceedings, Volga Region, Natural Sciences*, **2**, 101-108 (2015).

C- Ulusal Hakemli Dergilerde Yayımlanan Makaleler

1- Varol, M., "Batman Baraj Gölü'nün Trofik Durumunun Belirlenmesi", *Anadolu Doğa Bilimleri Dergisi*, **4**, 51-59 (2013).

2- Varol, M. ve B. Şen, "Dicle Nehri'nin Planktonik Alg Florası", *Journal of Fisheries Sciences.com*, **8**, 252-264 (2014).

3- Varol, M., "Dicle Baraj Gölü Su Kalitesinin Su Kirliliği Kontrolü Yönetmeliği'ne Göre Değerlendirilmesi", *Türk Tarım ve Doğa Bilimleri Dergisi*, **2**, 85-91 (2015).

D- Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiriler

1- Varol, M., "Organochlorine Pesticide and Antibiotic Residues in Fish from Keban Dam Reservoir, Turkey", *XIII. Congress of Ecology and Environment with International Participation*, Edirne-Turkey, 503, 2017.

2- Varol, M., "Comparison of Heavy Metal Levels of Farmed and Escaped Farmed Rainbow Trout", *XIII. Congress of Ecology and Environment with International Participation*, Edirne-Turkey, 537, 2017.

3- Varol, M., "Organochlorine Pesticides in Mussels from a Reservoir on the Euphrates River, Turkey", *XIII. Congress of Ecology and Environment with International Participation*, Edirne-Turkey, 538, 2017.

4- Varol, M., "Human Health Risks for Heavy Metals Ingested via Consumption of Farmed Rainbow Trout (*Oncorhynchus mykiss*)", *XIII. Congress of Ecology and Environment with International Participation*, Edirne-Turkey, 608, 2017.

5- Varol, M., "Human Health Risks from Metals via Consumption of Mangar (*Luciobarbus esocinus*) from the Keban Dam Reservoir, Turkey", *XIII. Congress of Ecology and Environment with International Participation*, Edirne-Turkey, 609, 2017.

6- Varol, M., "Phytoplankton Composition of Dicle Dam Lake (Diyarbakır)", *1st International Organic Agriculture and Biodiversity Symposium*, Bayburt-Turkey, 60, 2017.

7- Şen, B., F. Sönmez, M. T. Alp, M. A. T. Koçer ve **M. Varol**, "Importance of Algae in Organic Agriculture", *1st International Organic Agriculture and Biodiversity Symposium*, Bayburt-Turkey, 81, 2017.

8- Varol, M., "Functional Groups of the Phytoplankton Community of Kralkızı Dam Lake (Diyarbakır)", *1st International Organic Agriculture and Biodiversity Symposium*, Bayburt-Turkey, 139, 2017.

9- Sünbül, M. R. ve **M. Varol**, "Organochlorine Pesticides in Euphrates Barbell (*Luciobarbus mystaceus*) Collected from Keban Dam Reservoir (Elazığ, Turkey)", *Ecology Symposium*, Kayseri-Turkey, 251, 2017.

10- Şen, B., M. T. Alp, F. Sönmez, M. A. T. Koçer, **M. Varol** ve E. Aslan, "A Revised Study on Limnology of Cip Dam Lake (Elazığ, Turkey)", *1st International Symposium on Limnology and Freshwater Fisheries*, Eğirdir-Turkey, 9, 2017.

11- Balcı, M. ve **M. Varol**, "Heavy Metal Levels in Mussels from Keban Dam Reservoir (Elazığ, Turkey)", *1st International Symposium on Limnology and Freshwater Fisheries*, Eğirdir-Turkey, 95, 2017.

- 12- Balcı, M. ve **M. Varol**, "Human health risks from heavy metals via consumption of *Capoeta trutta* from the Keban Dam Reservoir, Turkey", *1st International Symposium on Limnology and Freshwater Fisheries*, Eğirdir-Turkey, 217, 2017.
- 13- **Varol, M.** ve B. Şen, "Environmental Factors Contributing to the Spatial and Temporal Variability of Phytoplankton Communities in the Tigris River, Turkey", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 229, 2016.
- 14- **Varol, M.**, M. R. Sünbül ve M. Balcı, "Effects of fish farm effluents on epilithic algae of the Sürgü Stream (Malatya)", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 521, 2016.
- 15- **Varol, M.** ve B. Şen, "Dissolved inorganic carbon fluxes from the Tigris River, Turkey", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 522, 2016.
- 16- **Varol, M.**, M. R. Sünbül ve M. Balcı, "The influence of fish farms on the sediment chemistry of the Sürgü Stream (Malatya)", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 523, 2016.
- 17- Sünbül, M. R., **M. Varol** ve H. Akgün, "Assessment of heavy metal contamination degree in sediments of the Keban Dam Reservoir (Turkey) using pollution indices", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 550, 2016.
- 18- **Varol, M.**, M. R. Sünbül ve M. Balcı, "Comparison of Water Quality Parameters in Inlet and Outlet Waters of a Trout Farm in Sürgü Town (Malatya)", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 551, 2016.
- 19- Sünbül, M. R., **M. Varol** ve H. Akgün, "Determination of dissolved heavy metal concentrations in the Keban Dam Reservoir", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 552, 2016.
- 20- **Varol, M.**, M. R. Sünbül ve M. Balcı, "Effects of Fish Farm Effluents on Water Quality of the Sürgü Stream (Malatya)", *FABA 2016: International Symposium on Fisheries and Aquatic Science*, Antalya-Turkey, 553, 2016.
- 21- **Varol, M.** ve M. R. Sünbül, "Assessment of Heavy Metal contamination in Sediments of the Keban Dam Lake (Turkey)", *International Conference on Natural Science and Engineering (ICNASE'16)*, Kilis-Turkey, 33, 2016.
- 22- Bekleyen, A., **M. Varol** ve B. Gökot, "Biological Mystery of the Tigris River Plankton", *International Diyarbakır Symposium*, Diyarbakır-Turkey, 94, 2016.
- 23- **Varol, M.** ve M. Balcı, "Water Quality Assessment and Physico Chemical Properties of Takaz and Pınarbaşı Spring Waters", *International Symposium of Water and Wastewater Management*, Malatya-Turkey, 665-669, 2016 (Tam metin).
- 24- **Varol, M.**, B. Şen ve M. R. Sünbül, "Heavy Metal Levels of Water Samples Taken from the Area Where Effluents of Wastewater Treatment Plant of Elazığ Municipality Discharging into the Keban Dam Lake", *International Symposium of Water and Wastewater Management*, Malatya-Turkey, 924-927, 2016 (Tam metin).
- 25- **Varol, M.** ve M. R. Sünbül, "Metal Levels in Sediments from the Area Where Effluents of WWTP of Elazığ Discharging into the Keban Dam Lake", *1st International Black Sea Congress on Environmental Sciences (IBCESS)*, Giresun-Turkey, 325, 2016 (Tam metin).
- 26- Bekleyen, A., B. Gökot ve **M. Varol**, "First Record of the Genus *Phyllodiaptomus* Kiefer (Copepoda, Calanoida, Diaptomidae) in Turkey", *FABA 2014: International Symposium on Fisheries and Aquatic Science*, Trabzon-Turkey, 343, 2014.
- 27- **Varol, M.**, B. Şen ve A. Bekleyen, "*Ceratium hirundinella* in Kralkızı Dam Lake seasonal distribution and morphological changes", *FABA 2014: International Symposium on Fisheries and Aquatic Science*, Trabzon-Turkey, 377, 2014.
- 28- **Varol, M.**, B. Şen ve A. Bekleyen, "A study on phytoplankton of the Tigris River (Turkey)", *FABA 2014: International Symposium on Fisheries and Aquatic Science*, Trabzon-Turkey, 398, 2014.

E- Ulusal Bilimsel Toplantılarda Sunulan Ve Bildiri Kitabında Basılan Bildiriler

- 1- **Varol, M.** ve M. R. Sünbül, "Rezervuarlarda Sedimentte Organik Zenginleşmenin Belirlenmesinde Sülfid ve Redoks Potansiyelinin Kullanılması", *II. Balıklandırma ve Rezervuar Yönetimi Sempozyumu*, Eğirdir, 27, 2015.
- 2- **Varol, M.** ve M. R. Sünbül, "Keban Baraj Gölü Uzunova Bölgesinde *Aphanizomenon flos-aquae* Patlaması", *II. Balıklandırma ve Rezervuar Yönetimi Sempozyumu*, Eğirdir, 131, 2015.
- 3- Sünbül, M. R., **M. Varol**, H. Akgün ve A. Kocalmış, "Keban Baraj Gölü Yüzey Suyunda Ağır Metal Düzeylerinin Belirlenmesi", *4. Uluslararası Katılımlı Toprak ve Su Kaynakları Kongresi*, Kahramanmaraş, 36-37, 2015.

- 4- **Varol, M.**, B. Şen ve A. Bekleyen, “Batman Baraj Gölü Fitoplankton Topluluğunun Kompozisyonu Fonksiyonel Grupları ve Çevresel Faktörlerle İlişkisi”, 5. *Doğu Anadolu Bölgesi Su Ürünleri Sempozyumu*, Elazığ, 45, 2014.
- 5- Bekleyen, A., B. Gökot ve **M. Varol**, “Kralkızı Baraj Gölü'nün (Diyarbakır) Zooplanktonu”, 5. *Doğu Anadolu Bölgesi Su Ürünleri Sempozyumu*, 322-323, Elazığ, 2014.
- 6- **Varol, M.**, “Batman Baraj Gölü'nün Trofik Durumunun Belirlenmesi”, *XI. Ekoloji ve Çevre Kongresi*, Samsun, 10, 2013.
- 7- Bekleyen, A., B. Gökot ve **M. Varol**, “Dicle Baraj Gölü'nün (Diyarbakır) Zooplanktonu”, *Ulusal Su Günleri Sempozyumu*, Elazığ, 10, 2009.

Proje Çalışmaları

- 1- *Atatürk Baraj Gölü'nde Ekonomik Öneme Sahip Balık Türlerinde Poliaromatik Hidrokarbon Düzeylerinin Belirlenmesi*, TAGEM Projesi, **Araştırmacı**, 2019.
- 2- *Kahramanmaraş'ta Tüketilen Balıklarda Ağır Metal Düzeylerinin Belirlenmesi*, Munzur Üniversitesi Bilimsel Araştırma Projesi, **Araştırmacı**, 2019.
- 3- *Tatar Baraj Gölü Su Kalitesi ve Taşıma Kapasitesinin Belirlenmesi*, TAGEM Projesi, **Araştırmacı**, 2018.
- 4- *Özlüce Baraj Gölü'nün trofik seviye ve taşıma kapasitesi yönünden araştırılması*, TAGEM Projesi, **Araştırmacı**, 2018.
- 5- *Keban Baraj Gölü'ndeki Bazı Balık Türlerinde Antibiyotik ve Pestisit Kalıntı Düzeylerinin Belirlenmesi*, İnönü Üniversitesi Bilimsel Araştırma Projesi, 2015/50, **Yürütücü**, 2017.
- 6- *Keban Baraj Gölü'nde Bulunan Farklı Trofik Seviyelerdeki Sucul Organizmalarda Ağır Metal Birikimi, Ekolojik ve İnsan Sağlığı Açısından Risk Değerlendirmesi ve Balık Çiftliklerinin Sediment Kimyasına Etkisi*, TÜBİTAK Projesi, 114Y018, **Yürütücü**, 2016.
- 7- *Sürgü'deki (Malatya) Alabalık İşletmelerinin Su Kalitesi Yönünden İncelenmesi ve İşletmelerin Çıkış Sularının Sürgü Çayı Üzerine Etkisi*, TÜBİTAK Projesi, 114O099, **Yürütücü**, 2015.
- 8- *Dicle Nehri ile Kralkızı, Dicle ve Batman Baraj Göllerinin Fiziko-Kimyasal Özellikleri Fito ve Zooplanktonu Üzerine Bir Araştırma*, TÜBİTAK Projesi, 107Y216, **Araştırmacı**, 2010.