



## Prof. Dr. Nazlı DEMİREL EROL

### Kişisel Bilgiler

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**Posta Adresi:** İÜ Deniz Bilimleri ve İşletmeciliği Enstitüsü, Müşküle Sok.

No:17 Vefa 34134 Fatih İstanbul

### Uluslararası Araştırmacı ID'leri

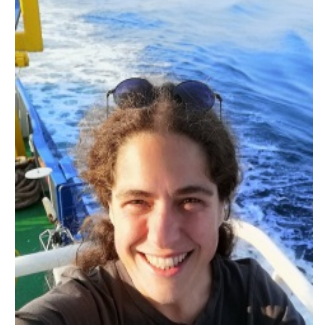
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Publons / Web Of Science ResearcherID: H-5679-2012

ScopusID: 55427203800

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### Biyografi

I am a marine biologist with a focus on fisheries conservation and the ecosystem approach to fisheries. I got my PhD in marine biology from Istanbul University in 2010 and later gained experience in fisheries conservation, working closely with Dr. Rainer Froese on data-limited stock assessment methods. With 20 years of experience, I have contributed as a project coordinator, consultant, and expert to various fisheries management and ecosystem conservation projects both nationally and internationally. Since 2015, I have been a senior researcher at the Institute of Marine Sciences and Management at Istanbul University. My work primarily explores the state of marine ecosystems and fisheries resources in the Eastern Mediterranean, particularly under the influence of environmental stressors.

My current researches focuses on estimating reference points using multiple tools for best management practices of data-limited fish stocks. I am particularly interested in ecosystem approach to fisheries management by using different models to determine status of ecosystem and fisheries resources. First, I use fisheries biology to better understand life history and ecological roles of commercial species, and second, I employ relationships with environmental conditions and ecosystem changes to identify indicators and reference points for fisheries.

### Eğitim Bilgileri

2004 - 2010	Doktora, İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, Türkiye
2001 - 2004	Yüksek Lisans, İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü, Türkiye
1997 - 2001	Lisans, İstanbul Üniversitesi, Su Ürünleri Fakültesi, Türkiye

### Araştırma Alanları

Balıkçılık, Deniz Biyolojisi, Biyolojik Oşinografi

### Akademik Unvanlar / Görevler

2022 - Devam Ediyor	Prof. Dr., İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü
2016 - 2022	Doç. Dr., İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü
2013 - 2015	Araştırmacı, GEOMAR Helmholtz Centre for Ocean Research Kiel, Evolutionary Ecology of Fishes
2010 - 2013	Araştırma Görevlisi Dr., İstanbul Üniversitesi, Deniz Bilimleri Ve İşletmeciliği Enstitüsü, Deniz Bilimleri Ve İşletmeciliği Bölümü
2001 - 2010	Araştırma Görevlisi, İstanbul Üniversitesi, Deniz Bilimleri ve İşletmeciliği Enstitüsü, Deniz Bilimleri ve İşletmeciliği Bölümü

## Verdiği Dersler

2023 - 2024, 2022 - 2023, 2020 - 2021, 2018 - 2019	Sayısal Ekoloji, Yüksek Lisans
2021 - 2022, 2019 - 2020, 2017 - 2018, 2016 - 2017	Balık Biyoçeşitliliği, Doktora

## Yönetilen Tezler

Devam Ediyor	Demirel N., Doktora, D.Bedikoğlu(Öğrenci), Seasonal vertical distribution and impact of climate change on size variations of zooplankton in the Sea of Marmara
2020	Demirel N., Yüksek Lisans, D.Bedikoğlu(Öğrenci), Reproduction strategy of dominant Cladocera species of the Sea of Marmara
2020	Demirel N., Doktora, G.Gül(Öğrenci), Feeding habits and trophic levels of elasmobranch species in the Sea of Marmara

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Assessment of Human Health Impacts from Invasive Pufferfish (Attacks, Poisonings and Fatalities) across the Eastern Mediterranean**  
Ulman A., Abd Rabou A. F. N., Al Mabruk S., Bariche M., Bilecenoğlu M., Demirel N., Galil B., Hüseyinoğlu M. F., Jimenez C., Hadjioannou L., et al.  
Biology, cilt.13, sa.4, ss.1-19, 2024 (SCI-Expanded)
- II. **Shifts in the pelagic fishery dynamics in response to regional sea warming and fishing in the Northeastern Mediterranean**  
Demirel N., Akoğlu E., Yıldız T.  
Regional Environmental Change, cilt.23, sa.4, 2023 (SCI-Expanded)
- III. **New developments in the analysis of catch time series as the basis for fish stock assessments: The CMSY++ method**  
Froese R., Winker H., Coro G., Palomares M. D., Tsikliras A., Dimarchopoulou D., Touloumis K., Demirel N., Vianna G., Scarcella G., et al.  
ACTA ICHTHYOLOGICA ET PISCATORIA, cilt.53, ss.173-189, 2023 (SCI-Expanded)
- IV. **Occurrence, bioconcentration, and human health risks of pharmaceuticals in biota in the Sea of Marmara, Türkiye**  
Korkmaz N., Çağlar N., Aksu A., Ünsal Özgüvenç T., Balcıoğlu E. B., Cavus Arslan H., Demirel N.  
CHEMOSPHERE, cilt.325, 2023 (SCI-Expanded)

- V. **Editorial: Fishing effort and the evolving nature of its efficiency**  
Demirel N., Nauen C. E., Palomares M. L. D.  
FRONTIERS IN MARINE SCIENCE, cilt.10, ss.5-8, 2023 (SCI-Expanded)
- VI. **Comparison of fish prey contribution in the diet of European hake by visual assessment of stomach contents and DNA metabarcoding**  
Gül G., Keskin E., Demirel N.  
Environmental Biology of Fishes, cilt.106, sa.4, ss.613-625, 2023 (SCI-Expanded)
- VII. **Fisheries impact on the Sea of Marmara ecosystem structure and functioning during the last three decades**  
Saygu I., Akoglu E., Gül G., Bedikoğlu D., Demirel N.  
Frontiers in Marine Science, cilt.9, 2023 (SCI-Expanded)
- VIII. **Bio-economic indicators of fisheries: impact of variations in landings and fish size on market prices in Istanbul Fish Market**  
Yildiz T., Ulman A., Karakulak F. S., Uzer U., Demirel N.  
PEERJ, cilt.11, 2023 (SCI-Expanded)
- IX. **A biological and ecological study of the invasive pufferfish *Torquigener hypselogeneion* (Bleeker 1852) [conspecific *Torquigener flavimaculosus* Hardy & Randall, 1983] in the Eastern Mediterranean**  
Ulman A., Akbora H. D., Çanak Ö., Chu E., Çiçek B. A., Ersönmez H., Mavruk S., Özyurt C. E., Yıldiz T., Liu A., et al.  
AQUATIC INVASIONS, cilt.18, sa.1, ss.59-81, 2023 (SCI-Expanded)
- X. **Uncovering ecological regime shifts in the Sea of Marmara and reconsidering management strategies**  
Demirel N., Akoglu E., Ulman A., Ertor-Akyazi P., Gül G., Bedikoğlu D., Yıldız T., Yilmaz I. N.  
MARINE ENVIRONMENTAL RESEARCH, cilt.183, ss.1-13, 2023 (SCI-Expanded)
- XI. **Ontogenetic shift in diet and trophic role of *Raja clavata* inferred by stable isotopes and stomach content analysis in the Sea of Marmara**  
Gul G., Demirel N.  
JOURNAL OF FISH BIOLOGY, cilt.101, sa.3, ss.560-572, 2022 (SCI-Expanded)
- XII. **The occurrence and feeding of a critically endangered shark species, *Oxynotus centrina* in the Sea of Marmara**  
Gul G., Yokes M. B., Demirel N.  
JOURNAL OF FISH BIOLOGY, cilt.101, sa.3, ss.728-735, 2022 (SCI-Expanded)
- XIII. **Reproductive strategies and population characteristics of key Cladocera species in the Sea of Marmara**  
Bedikoğlu D., Yilmaz I. N., Demirel N.  
REGIONAL STUDIES IN MARINE SCIENCE, cilt.54, ss.1-7, 2022 (SCI-Expanded)
- XIV. **Catch of the day: Abundance and size data of groupers (*Epinephelidae*) and combers (*Serranidae*) from Middle to Late Holocene Levantine archaeological contexts**  
Winter R., Desiderà E., Guidetti P., Vermeersch S., Demirel N., Çakırlar C.  
Journal of Island and Coastal Archaeology, 2022 (AHCI)
- XV. **A moving target: Achieving good environmental status and social justice in the case of an alien species, *Rapa whelk* in the Black Sea**  
Demirel N., Ulman A., Yıldiz T., Ertor-Akyazi P.  
MARINE POLICY, cilt.132, 2021 (SSCI)
- XVI. **The biology and ecology of the invasive silver-cheeked toadfish (*Lagocephalus sceleratus*), with emphasis on the Eastern Mediterranean**  
Ulman A., Yıldiz T., Demirel N., Çanak Ö., Yemişken E., Pauly D.  
NEOBOTA, cilt.68, ss.145-175, 2021 (SCI-Expanded)
- XVII. **Evaluation of the comprehensive feeding strategy and trophic role of overexploited mesopredator species in the Sea of Marmara (northeastern Mediterranean)**  
Gul G., Demirel N.  
ESTUARINE COASTAL AND SHELF SCIENCE, cilt.259, 2021 (SCI-Expanded)

- XVIII. **Low Pufferfish and Lionfish Predation in Their Native and Invaded Ranges Suggests Human Control Mechanisms May Be Necessary to Control Their Mediterranean Abundances**  
Ulman A., Harris H. E. E., Doumpas N., Deniz Akbora H., Al Mabruk S. A. A., Azzurro E., Bariche M., Cicek B. A., Deidun A., Demirel N., et al.  
FRONTIERS IN MARINE SCIENCE, cilt.8, 2021 (SCI-Expanded)
- XIX. **Stock dynamics and predator-prey effects of Atlantic bonito and bluefish as top predators in the Black Sea**  
Daskalov G. M., Demirel N., Ulman A., Georgieva Y., Zengin M.  
ICES JOURNAL OF MARINE SCIENCE, cilt.77, sa.7-8, ss.2995-3005, 2020 (SCI-Expanded)
- XX. **A comparison of market landings during fish spawning seasons to better understand the effectiveness of the temporal fishery closure in Turkey**  
Yıldız T., Ulman A., Demirel N.  
OCEAN & COASTAL MANAGEMENT, cilt.198, 2020 (SCI-Expanded)
- XXI. **The Lost Fish of Turkey: A Recent History of Disappeared Species and Commercial Fishery Extinctions for the Turkish Marmara and Black Seas**  
Ulman A., Zengin M., Demirel N., Pauly D.  
FRONTIERS IN MARINE SCIENCE, cilt.7, 2020 (SCI-Expanded)
- XXII. **Estimating stock status from relative abundance and resilience**  
Froese R., Winker H., Coro G., Demirel N., Tsikliras A. C., Dimarchopoulou D., Scarcella G., Palomares M. L. D., Dureuil M., Pauly D.  
ICES Journal of Marine Science, cilt.77, ss.527-538, 2020 (SCI-Expanded)
- XXIII. **First Large-Scale Eastern Mediterranean and Black Sea Stock Assessment Reveals a Dramatic Decline**  
Demirel N., Zengin M., Ulman A.  
Frontiers in Marine Science, cilt.7, 2020 (SCI-Expanded)
- XXIV. **On the pile-up effect and priors for L-inf and M/K: response to a comment by Hordyk et al. on "A new approach for estimating stock status from length frequency data" Reply**  
Froese R., Winker H., Coro G., Demirel N., Tsikliras A. C., Dimarchopoulou D., Scarcella G., Probst W. N., Dureuil M., Pauly D.  
ICES JOURNAL OF MARINE SCIENCE, cilt.76, ss.461-465, 2019 (SCI-Expanded)
- XXV. **Status and rebuilding of European fisheries**  
Froese R., Winker H., Coro G., Demirel N., Tsikliras A. C., Dimarchopoulou D., Scarcella G., Quaas M., Matz-Lueck N.  
MARINE POLICY, cilt.93, ss.159-170, 2018 (SSCI)
- XXVI. **A new approach for estimating stock status from length frequency data**  
Froese R., Winker H., Coro G., Demirel N., Tsikliras A. C., Dimarchopoulou D., Scarcella G., Probst W. N., Dureuil M., Pauly D.  
ICES Journal of Marine Science, cilt.75, ss.2004-2015, 2018 (SCI-Expanded)
- XXVII. **Estimating fisheries reference points from catch and resilience**  
Froese R., Demirel N., Coro G., Kleisner K. M., Winker H.  
FISH AND FISHERIES, cilt.18, ss.506-526, 2017 (SCI-Expanded)
- XXVIII. **Reply to Andersen et al. (2016) "Assumptions behind size-based ecosystem models are realistic"**  
Froese R., Walters C., Pauly D., Winker H., Weyl O. L. F., Demirel N., Tsikliras A. C., Holt S. J.  
ICES JOURNAL OF MARINE SCIENCE, cilt.73, ss.1656-1658, 2016 (SCI-Expanded)
- XXIX. **A critique of the balanced harvesting approach to fishing**  
Froese R., Walters C., Pauly D., Winker H., Weyl O. L. F., Demirel N., Tsikliras A. C., Holt S. J.  
ICES JOURNAL OF MARINE SCIENCE, cilt.73, ss.1640-1650, 2016 (SCI-Expanded)
- XXX. **Revisiting safe biological limits in fisheries**  
Froese R., Coro G., Kleisner K., Demirel N.  
FISH AND FISHERIES, cilt.17, ss.193-209, 2016 (SCI-Expanded)
- XXXI. **New records of jellyfish species in the Marmara Sea**  
Isinibilir M., Yılmaz I., Demirel N.  
ITALIAN JOURNAL OF ZOOLOGY, cilt.82, sa.3, ss.425-429, 2015 (SCI-Expanded)

- XXXII. **An overall indicator for the good environmental status of marine waters based on commercially exploited species**  
Froese R., Demirel N., Sampang A.  
MARINE POLICY, cilt.51, ss.230-237, 2015 (SSCI)
- XXXIII. **Ichthyoplankton dynamics in a highly urbanized estuary**  
Demirel N.  
MARINE BIOLOGY RESEARCH, cilt.11, ss.677-688, 2015 (SCI-Expanded)
- XXXIV. **Influence of the extreme conditions on the water quality and material exchange flux in the Strait of Istanbul**  
Altioğ H., Aslan A., Övez S., Demirel N., Yuksek A., Kiratli N., Tas S., Muftuoğlu A. E., Sur H. I., Okus E.  
JOURNAL OF MARINE SYSTEMS, cilt.139, ss.204-216, 2014 (SCI-Expanded)
- XXXV. **Reproductive biology of *Trachurus mediterraneus* (Carangidae): a detailed study for the Marmara - Black Sea stock**  
Demirel N., Yuksek A.  
JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM, cilt.93, ss.357-364, 2013 (SCI-Expanded)
- XXXVI. **Weight-length relationships of 28 fish species in the Sea of Marmara**  
Demirel N., Murat Dalkara E.  
TURKISH JOURNAL OF ZOOLOGY, cilt.36, ss.785-791, 2012 (SCI-Expanded)
- XXXVII. **Alien Crustacean Decapods from the Aegean Coast of Turkey**  
Yokeş M. B., Karhan S. U., Okus E., Yuksek A., Aslan-Yılmaz A., Yılmaz I. N., Demirel N., Demir V., Galil B. S.  
AQUATIC INVASIONS, cilt.2, sa.3, ss.162-168, 2007 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **None**  
Demirel N.  
JBM, cilt.1, ss.1, 2012 (Hakemsiz Dergi)

## **Kitap & Kitap Bölümleri**

- I. **Status of the Sea of Marmara ecosystem and its fishery resources: Mucilage episodes and recommendations for sustainable fisheries**  
Demirel N., Yıldız T., Ulman A., Zengin M., Akoglu E., Saygu I., Ertor Akyazi P., Gül G., Bedikoğlu D., Yılmaz I. N.  
Mucilage Problem in the Sea of Marmara, Meriç Albay, Editör, İstanbul University, İstanbul, ss.217-232, 2023
- II. **Sürdürülebilir Balıkçılık için "Ekosistem Temelli Yönetim"**  
Demirel N., Demir V., Oruç A., Akça N., Araç N., Kalem S.  
Wwf-Türkiye (Doğal Hayatı Koruma Vakfı), İstanbul, 2013

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Fishing subsidies and their impacts on marine ecosystems in Türkiye: The past, present and future**  
Demirel N.  
Workshop on Environmentally Harmful Subsidies, Marseille, Fransa, 30 Ocak 2024, ss.1
- II. **Fishing impact assessment on an altered marine ecosystem requires ecosystem approach to fisheries**  
Demirel N.  
Fish Forum 2024, Antalya, Türkiye, 19 - 23 Şubat 2024, ss.1
- III. **Ecosystem approach to marine management: Challenges and opportunities**

Demirel N.

International Conference on Türkiye's Contributions to the UN Decade of Ocean Science for Sustainable Development, Ankara, Türkiye, 26 Eylül 2023

**IV. FishBase contribution to improve knowledge in data-poor regions: a case study on the Sea of Marmara, Eastern Mediterranean**

Demirel N.

FishBase / SeaLifeBase Symposium, Brussels, Belçika, 4 - 05 Eylül 2023, ss.1

**V. The status of the ecosystem and fishery resources in the Sea of Marmara**

Demirel N.

3rd National Marine Monitoring and Evaluation Symposium, Antalya, Türkiye, 6 - 09 Aralık 2022, ss.1

**VI. Potential effect of mucilage formation on fish stocks in the Sea of Marmara**

Demirel N.

5th National Marine Sciences Conference, Trabzon, Türkiye, 3 - 05 Haziran 2022, ss.1

**VII. Reassessment of the changing fisheries for data poor stocks in the Eastern Mediterranean**

Demirel N.

Fish Forum 2018, Rome, İtalya, 10 - 14 Aralık 2018, ss.1

## Desteklenen Projeler

2024 - 2027	Black Sea Smart Marine Environmental Outcome System , AB Destekli Diğer Projeler
2022 - 2024	Marmara Denizinde ticari öneme sahip bazı balıkların av verimindeki değişimlerin çevresel koşullarla ilişkisi, Yükseköğretim Kurumları Destekli Proje
2016 - 2024	Türkiye Denizlerinde Bütünleşik İzleme Faaliyetleri kapsamında Marmara Denizi Ekolojik Kalite İzleme ve Değerlendirme Projesi, Diğer Resmi Kurumlarca Desteklenen Proje
2016 - 2019	Marine Knowledge Sharing Platform for Federating Responsible Research and Innovation Communities (MARINA), UFUK 2020 Projesi
2016 - 2016	Exploitation and status of European stocks, Diğer Uluslararası Fon Programları
2015 - 2016	Deniz İzlemelerinde Standardizasyonun Sağlanması Projesi, Diğer Resmi Kurumlarca Desteklenen Proje
2015 - 2016	Marmara Denizi Berlam Balığı Stoklarının Ekosistem Yaklaşımı Çerçevesinde Sürdürülebilirlik Düzeyi, TÜBİTAK Projesi
2015 - 2015	Marmara Denizi Kirlilik ve Ekolojik Kalite İzleme ve Değerlendirme Projesi, Diğer Resmi Kurumlarca Desteklenen Proje
2012 - 2013	Confronting the myth of the bitter sea pre historic exploitation of the eastern Mediterranean seascape, Diğer Ülkelerdeki Özel Organizasyonlar Tarafından Desteklenmiş Proje

## Bilimsel Dergilerdeki Faaliyetler

2024 - Devam Ediyor	Aquaculture, Fish and Fisheries, Yardımcı Editör/Bölüm Editörü
2016 - Devam Ediyor	FRONTIERS IN MARINE SCIENCE, Yardımcı Editör/Bölüm Editörü
2015 - 2022	JOURNAL OF APPLIED ICHTHYOLOGY, Danışma Kurul Üyesi

## Bilimsel Hakemlikler

Haziran 2024	AB Destekli Diğer Projeler, The Sustainable Blue Economy Partnership, Fransa
Aralık 2023	AB Destekli Diğer Projeler, The Sustainable Blue Economy Partnership, Fransa
Şubat 2022	UFUK 2020 Projesi, RIA, Araştırma ve Yenilikçilik Eylemleri Projesi, European Commission, Belçika

Eylül 2020	UFUK 2020 Projesi, RIA, Araştırma ve Yenilikçilik Eylemleri Projesi, European Commission, Belçika
Şubat 2019	UFUK 2020 Projesi, RIA, Araştırma ve Yenilikçilik Eylemleri Projesi, European Commission, Belçika
Eylül 2017	UFUK 2020 Projesi, RIA, Araştırma ve Yenilikçilik Eylemleri Projesi, European Commission, Belçika
Şubat 2016	UFUK 2020 Projesi, RIA, Araştırma ve Yenilikçilik Eylemleri Projesi, European Commission, Belçika

## Bilimsel Danışmanlıklar

2016 - 2016	Bilimsel Projeler İçin Yapılan Danışmanlık, Food and Agricultural Organizaton
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## Bilimsel Araştırma / Çalışma Grubu Üyelikleri

2024 - Devam Ediyor	Rethinking The Blue Economy: Socio-Ecological Impacts And Opportunities - Rethinkblue - Ca22122, <a href="https://www.cost.eu/actions/CA22122/#tabs+Name:Description">https://www.cost.eu/actions/CA22122/#tabs+Name:Description</a> , University of Zadar, Hırvatistan
2023 - Devam Ediyor	Fishbase, <a href="https://www.fishbase.se/search.php">https://www.fishbase.se/search.php</a> , Quantitative Aquatics, Filipinler
2023 - Devam Ediyor	Mbon Europe: Marine Biodiversity Monitoring For Europe , <a href="https://euomarinenetwork.eu/activities/mbon-europe/">https://euomarinenetwork.eu/activities/mbon-europe/</a> , Nord University, Norveç
2022 - Devam Ediyor	Enhancing Small-Medium Islands Resilience By Securing The Sustainability Of Ecosystem Services - Smiles - Ca21158, <a href="https://cost-smiles.eu/">https://cost-smiles.eu/</a> , Open University of Cyprus, Kıbrıs (Gkry)
2021 - Devam Ediyor	Unifying Approaches To Marine Connectivity For Improved Resource Management For The Seas - Sea-Unicorn - Ca19107, <a href="https://www.sea-unicorn.com/">https://www.sea-unicorn.com/</a> , Université Montpellier I, Fransa

## Metrikler

Yayın: 47  
Atıf (WoS): 1053  
Atıf (Scopus): 1117  
H-İndeks (WoS): 16  
H-İndeks (Scopus): 15

## Akademi Dışı Deneyim

2020 - 2020	Birleşmiş Milletler, Food and Agricultural Organizaiton (FAO), General Fisheries Commission for the Mediterranean (GFCM)
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