

Asst. Prof. NÜVİT BERKAY BAŞDURAK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-3444-2020

ScopusID: 47061174900

Yoksis Researcher ID: 321432

Education Information

Doctorate, University of Florida, United States Of America 2006 - 2010

Doctorate, Middle East Technical University, Turkey 2004 - 2007

Postgraduate, Middle East Technical University, Turkey 2001 - 2004

Undergraduate, Gazi University, Mühendislik Fakültesi, Turkey 1995 - 2000

Foreign Languages

English, C1 Advanced

German, A2 Elementary

French, B1 Intermediate

Research Areas

Physical Oceanography, Hydromechanics, Groundwater Engineering, Coastal Engineering

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Institute of Marine Sciences, Oceanography, 2020 - Continues

Researcher, Universitaet Rostock, 2017 - Continues

Research Assistant, Universitaet Rostock, 2014 - 2017

Research Assistant, University of California, Davis, 2011 - 2014

Research Assistant, University of Florida, 2010 - 2011

Courses

FLUID DYNAMICS, Postgraduate, 2020 - 2021

Introduction to Physical Oceanography, Postgraduate, 2021 - 2022, 2020 - 2021

HYDRAULICS, Undergraduate, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Coastal discharge extremes and their environmental impact on the Sea of Marmara**
BAŞDURAK N. B.
Turkish Journal of Earth Sciences, vol.33, no.3, pp.384-394, 2024 (SCI-Expanded)
- II. **A local eddy viscosity parameterization for wind-driven estuarine exchange flow, Part II: Entrainment**
BAŞDURAK N. B., Burchard H., Schuttelaars H. M.
Progress in Oceanography, vol.219, 2023 (SCI-Expanded)
- III. **Climate change impacts on river discharge to the Sea of Marmara**
BAŞDURAK N. B.
Frontiers in Marine Science, vol.10, 2023 (SCI-Expanded)
- IV. **Wind Effects on Small-Scale River and Creek Plumes**
Başdurak N. B., Largier J.
Journal of Geophysical Research: Oceans, vol.127, no.12, 2022 (SCI-Expanded)
- V. **Thermocline Salinity Minima Due To Wind-Driven Differential Advection**
Chrysagi E., Basdurak N. B., Umlauf L., Graewe U., Burchard H.
JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS, vol.127, no.11, 2022 (SCI-Expanded)
- VI. **A local eddy viscosity parameterization for wind-driven estuarine exchange flow. Part I: Stratification dependence**
Basdurak N. B., Burchard H., Schuttelaars H. M.
Progress in Oceanography, vol.193, 2021 (SCI-Expanded)
- VII. **Modeling the Dynamics of Small-Scale River and Creek Plumes in Tidal Waters**
Basdurak N. B., Largier J. L., Nidzieko N. J.
JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS, vol.125, no.7, 2020 (SCI-Expanded)
- VIII. **Parameterization of mixing by secondary circulation in estuaries**
Basdurak N. B., Huguenard K. D., Valle-Levinson A., Li M., Chant R. J.
JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS, vol.122, no.7, pp.5666-5688, 2017 (SCI-Expanded)
- IX. **Salinity inversions in the thermocline under upwelling favorable winds**
Burchard H., Basdurak N. B., Graewe U., Knoll M., Mohrholz V., Mueller S.
GEOPHYSICAL RESEARCH LETTERS, vol.44, no.3, pp.1422-1428, 2017 (SCI-Expanded)
- X. **Lateral structure of tidal asymmetry in vertical mixing and its impact on exchange flow in a coastal plain estuary**
Basdurak N. B., Valle-Levinson A., Cheng P.
CONTINENTAL SHELF RESEARCH, vol.64, pp.20-32, 2013 (SCI-Expanded)
- XI. **Tidal variability of lateral advection in a coastal plain estuary**
Basdurak N. B., Valle-Levinson A.
CONTINENTAL SHELF RESEARCH, pp.85-97, 2013 (SCI-Expanded)
- XII. **Influence of Advective Accelerations on Estuarine Exchange at a Chesapeake Bay Tributary**
Basdurak N. B., Valle-Levinson A.
JOURNAL OF PHYSICAL OCEANOGRAPHY, vol.42, no.10, pp.1617-1634, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of techniques to limit saltwater intrusion in coastal aquifers**
Basdurak N. B., Onder H., Motz L. H.
Restoring Our Natural Habitat - Proceedings of the 2007 World Environmental and Water Resources Congress, 2007 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. DOĐU AKDENİZ'DE DOLAŞIM DESENLERİ VE SU KÜTLESİ OLUŞUMUNDA DEĐİŞKENLİK

BAŞDURAK N. B., FACH B. A., SALİHOĐLU B., ÖREK H., ÖZHAN K., MANTIKCI M., MANTIKCI M.

III. Ulusal Denizlerde İzleme ve Deđerlendirme Sempozyumu, Turkey, 6 - 09 December 2022

Supported Projects

Akođlu E., Salihođlu B., Gücü A. C., Başdurak N. B., Karahan A., H2020 Project, Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems, 2021 - 2025

Salihođlu B., Yücel M., Şahin Yücel E., Ibello V., Akođlu E., Örek H., Ok M., Karahan A., Uysal Z., Sürücü B., et al., H2020 Project, BRIDGE-BS: Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems , 2021 - 2025

Salihođlu B., Tuđrul S., Uysal Z., Fach Salihođlu B. A., Yücel M., Özhan K., Özkan K., Tezcan D., Örek H., Başdurak N. B., et al., Project Supported by Other Official Institutions, Marmara Denizi Bütünlesik Modelleme Sistemi (MARMOD) Faz II, 2021 - 2023

Salihođlu B., Tuđrul S., Uysal Z., Kideş A. E., Fach Salihođlu B. A., Yücel M., Başdurak N. B., Özhan K., Tezcan D., Örek H., et al., Project Supported by Other Official Institutions, Denizlerde Bütünleşik Kirlilik İzleme Programı (2020-2022), 2020 - 2022

Scientific Refereeing

ESTUARIES AND COASTS, SCI Journal, April 2021

Metrics

Publication: 14

Citation (WoS): 48

Citation (Scopus): 46

H-Index (WoS): 4

H-Index (Scopus): 4