

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

Research Assistant, Universitaet Rostock, 2017 - 2021

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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)

Supported Projects

Akoğlu E., Salihoğlu 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

Salihoğlu B., Yücel M., Şahin Yücel E., Ibello V., Akoğlu 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

Salihoğlu B., Tuğrul S., Uysal Z., Fach Salihoğlu 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 Bütünleşik Modelleme Sistemi (MARMOD) Faz II, 2021 - 2022

Scientific Refereeing

ESTUARIES AND COASTS, SCI Journal, April 2021

Metrics

Publication: 8

Citation (WoS): 48

Citation (Scopus): 46

H-Index (WoS): 4

H-Index (Scopus): 4