Assoc. Prof. Oral Yağcı

Personal Information

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Education Information

Doctorate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2000 - 2006
Postgraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1998 - 2000
Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1990 - 1995

Dissertations

Doctorate, The impact of different forms of single natural vegetative elements on flow characteristics in open channels, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2006
Postgraduate, Şevli dalgakıranlarda kaplama tabakasında kullanılan antifer blokların stabilitesinin incelenmesi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2000

Research Areas

Technical Sciences, Civil Engineering, Hydraulic, Surface Water Engineering, Hydrology, Water Resources Planning and Management, Hydraulic Structures, Open Channel Flow, Bridge Hydraulics

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - Continues
Associate Professor, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - Continues
Assistant Professor, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2010 - 2011
Research Assistant, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 1998 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Midchannel islands in lowland river corridors and their impacts on flow structure and morphology:A numerical based conceptual analysis**
Heidari N., Yağcı O., Aksel M.
ECOLOGICAL ENGINEERING, vol.173, 2021 (SCI-Expanded)

II. **Experimental investigation of gradually-varied unsteady flow passed a circular Pile**
Gargari M. K., Kırca V. Ş. Ö., Yağcı O.
COASTAL ENGINEERING, vol.168, 2021 (SCI-Expanded)

III. **The role of increasing riverbank vegetation density on flow dynamics across an asymmetrical channel**
Valyrakis M., Liu D., Turker U., Yağcı O.
ENVIRONMENTAL FLUID MECHANICS, vol.21, no.3, pp.643-666, 2021 (SCI-Expanded)

IV. **A comparative analysis of coherent structures around a pile over rigid-bed and scoured-bottom**
Aksel M., Yağcı O., Kırca V. Ş. Ö., Erdog E., Heidari N.
OCEAN ENGINEERING, vol.226, 2021 (SCI-Expanded)

V. **Experimental analysis of flow and turbulence in the wake of neighboring emergent vegetation patches with different densities**
Kitsikoudisu V., Yağcı O., Kırca V. Ş. Ö.
ENVIRONMENTAL FLUID MECHANICS, vol.20, no.6, pp.1417-1439, 2020 (SCI-Expanded)

VI. **Impact of nearshore vegetation on coastal dune erosion: assessment through laboratory experiments**
Turker U., Yağcı O., Kabdaşlı M. S.
ENVIRONMENTAL EARTH SCIENCES, vol.78, no.19, 2019 (SCI-Expanded)

VII. **Clear-water scour and flow field alteration around an inclined pile**
Kitsikoudis V., Kırca V. Ş. Ö., Yağcı O., Çelik M. F.
COASTAL ENGINEERING, vol.129, pp.59-73, 2017 (SCI-Expanded)

VIII. **Clear water scour around a finite array of cylinders**
Yağcı O., Yildirim I., Çelik M. F., Kitsikoudis V., Duran Z., Kırca V. Ş. Ö.
Applied Ocean Research, vol.68, pp.114-129, 2017 (SCI-Expanded)

IX. **Experimental investigation of the hydroelastic and the structural response of a moored pontoon-type modular floating breakwater with flexible connectors**
Loukogeorgaki E., Lentsiou E. N., Aksel M., Yağcı O.
COASTAL ENGINEERING, vol.121, pp.240-254, 2017 (SCI-Expanded)

X. **Experimental investigation of channel flow through idealized isolated tree-like vegetation**
Kitsikoudis V., Yağcı O., Kırca V. Ş. Ö., KELLECIOGLU D.
ENVIRONMENTAL FLUID MECHANICS, vol.16, no.6, pp.1283-1308, 2016 (SCI-Expanded)

XI. **Scour patterns around isolated vegetation elements**
Yağcı O., CELIK M. F., KITSIKOUDIS V., Kırca V. Ş. Ö., HODOGLU C., Valyrakis M., DURAN Z., KAYA Ş.
ADVANCES IN WATER RESOURCES, vol.97, pp.251-265, 2016 (SCI-Expanded)

XII. **Machine learning based mapping of the wave attenuation mechanism of an inclined thin plate**
Yağcı O., KITSIKOUDIS V.
APPLIED OCEAN RESEARCH, vol.53, pp.107-115, 2015 (SCI-Expanded)

XIII. **Wave attenuation and flow kinematics of an inclined thin plate acting as an alternative coastal protection structure**
Yağcı O., Kırca V. Ş. Ö., ACANAL L.
APPLIED OCEAN RESEARCH, vol.48, pp.214-226, 2014 (SCI-Expanded)

XIV. **3D Experimental investigation of the structural response and the effectiveness of a moored floating breakwater with flexibly connected modules**
Loukogeorgaki E., YAGCI O., Kabdaşlı M. S.
COASTAL ENGINEERING, vol.91, pp.164-180, 2014 (SCI-Expanded)

XV. **Performance of an inclined thin plate in wave attenuation**
Acanal L., Loukogeorgaki E., Yağcı O., Kırca V. Ş. Ö., AKGUEL A.
JOURNAL OF COASTAL RESEARCH, pp.141-146, 2013 (SCI-Expanded)

XVI. **The effect of an emergent vegetation (i.e. Phragmistes Australis) on wave attenuation and wave kinematics**
Akgul M. A., Yilmazer D., OGUZ E., Kabdaşlı M. S., YAGCI O.
JOURNAL OF COASTAL RESEARCH, pp.147-152, 2013 (SCI-Expanded)

XVII. **Comments on "Flow resistance of one-line emergent vegetation along the floodplain edge of a compound open channel" by Xin Sun, Koji Shiono [Adv. Water Resour. 32 (2009), 430-438]**

Yağcı O., Kırca V. Ş. Ö.
Advances in Water Resources, vol.33, no.8, pp.947-948, 2010 (SCI-Expanded)

XVIII. **The role of different forms of natural riparian vegetation on turbulence and kinetic energy characteristics**
Yağcı O., TSCHIESCHE U., Kabdaşlı M. S.
ADVANCES IN WATER RESOURCES, vol.33, no.5, pp.601-614, 2010 (SCI-Expanded)

XIX. **Hydraulic aspects of pool-weir fishways as ecologically friendly water structure**
Yagci O.
ECOLOGICAL ENGINEERING, vol.36, no.1, pp.36-46, 2010 (SCI-Expanded)

XX. **The impact of single natural vegetation elements on flow characteristics**
Yagci O., Kabdaşlı M. S.
HYDROLOGICAL PROCESSES, vol.22, no.21, pp.4310-4321, 2008 (SCI-Expanded)

XXI. **Scenarios of tsunami amplitudes in the north eastern coast of Sea of Marmara generated by submarine mass failure**
Hayır A., Seseogulları B., Kılınc I., Erturk A., Cığızoğlu H. K., Kabdaşlı M. S., Yağcı O., Day K.
COASTAL ENGINEERING, vol.55, no.5, pp.333-356, 2008 (SCI-Expanded)

XXII. **3D numerical modelling of a willow vegetated river/floodplain system**
Wilson C. A. M. E., Yagci O., RAUCH H. -., OLSEN N. R. B.
JOURNAL OF HYDROLOGY, vol.327, pp.13-21, 2006 (SCI-Expanded)

XXIII. **An experimental model application of wavescreen: Dynamic pressure, water particle velocity, and wave measurements**
Yagci O., KIRCA V. Ş. Ö., Kabdasli M. S., CELIK A. B., UNAL N. E., AYDINGAKKO A.
OCEAN ENGINEERING, vol.33, no.10, pp.1299-1321, 2006 (SCI-Expanded)

XXIV. **Analysis of coastal damage of a beach profile under the protection of emergent vegetation**
Turker U., YAGCI O., Kabdasli M. S.
OCEAN ENGINEERING, vol.33, pp.810-828, 2006 (SCI-Expanded)

XXV. **Artificial intelligence methods in breakwater damage ratio estimation**
Yagci O., MERCAN D., CIGIZOGLU H. K., Kabdasli M. S.
OCEAN ENGINEERING, vol.32, pp.2088-2106, 2005 (SCI-Expanded)

XXVI. **The stability of the antifer units used on breakwaters in case of irregular placement**
Yagci O., KAPDASLI S., Cigizoglu H. K.
OCEAN ENGINEERING, vol.31, pp.1111-1127, 2004 (SCI-Expanded)

XXVII. **Alternative placement technique for antifer blocks used on breakwaters**
Yagci O., KAPDASLI S.
OCEAN ENGINEERING, vol.30, no.11, pp.1433-1451, 2003 (SCI-Expanded)

Articles Published in Other Journals

I. **Bleed flow structure in the wake region of finite array of cylinders acting as an alternative supporting structure for foundation**
Yağcı O., Karabay O., Strom K.
JOURNAL OF OCEAN ENGINEERING AND MARINE ENERGY, vol.7, pp.379-403, 2021 (ESCI)

Supported Projects

Yağcı O., Project Supported by Higher Education Institutions, Flow Field Alteration due to Permeability and Subcanopy Flow for Emergent Vegetation, 2016 - 2018
Yağcı O., Project Supported by Higher Education Institutions, THE VARIATION OF LOCAL SCOUR PATTERN AROUND REPRESENTATIVE NATURAL VEGETATION ELEMENTS, 2015 - 2018

Yağcı O., Project Supported by Higher Education Institutions, Bir Taşkına Ait Hidrografın Kabarma ve Çekilme Eğrisi Kısımlarında Hidrolik Karaktersitklerin Zamansal Değişimi, 2012 - 2014

Metrics

Publication: 52
Citation (WoS): 418
Citation (Scopus): 478
H-Index (WoS): 12
H-Index (Scopus): 13

Non Academic Experience

Virginia Tech, Civil and Environmental Eng.Dept., USA
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