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Education Information

Doctorate, Lehigh University, Mechanical Engineering And Mechanics, United States Of America 1995 - 1999
Postgraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, Turkey 1992 - 1995
Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, Turkey 1988 - 1992

Foreign Languages

English
French

Dissertations

Doctorate, Flow Structure and Loading Due to an Oscillating Cylinder in Steady Current, Lehigh University, Mechanical Engineering And Mechanics, 1999

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Wind power, Aeronautical and Space Engineering, Aeronautical Engineering, Space Engineering, Flight Sciences, Aerospace Propulsion, Aerodynamics, Measuring pressure, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Uçak ve Uzay Bilimleri, Uzay Mühendisliği, 2013 - Continues
Associate Professor, Istanbul Technical University, Uçak ve Uzay Bilimleri, Uzay Mühendisliği, 2008 - 2013
Assistant Professor, Istanbul Technical University, Uçak ve Uzay Bilimleri, Uzay Mühendisliği, 1999 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Physics and Modeling of Large Flow Disturbances: Discrete Gust Encounters for Modern Air Vehicles**
Jones A. R., Cetiner O., Smith M. J.
ANNUAL REVIEW OF FLUID MECHANICS, vol.54, pp.469-493, 2022 (SCI-Expanded)

II. **Experimental Investigation of Transverse and Vortex Gust Encounters at Low Reynolds Numbers**
Biler H., Sedky G., Jones A. R., Sarıtaş M., Cetiner O.
AIAA JOURNAL, vol.59, no.3, pp.786-799, 2021 (SCI-Expanded)

III. **Introduction to the Virtual Collection: Unsteady Aerodynamic Response of Rigid Wings in Large-Amplitude Gust Encounters**
Jones A. R., Cetiner O.
AIAA JOURNAL, vol.59, no.3, pp.764, 2021 (SCI-Expanded)

IV. **Overview of Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters**
Jones A. R., Cetiner O.
AIAA JOURNAL, vol.59, no.2, pp.731-736, 2021 (SCI-Expanded)

V. **Experimental investigation of interfacial conditions between fluid and porous layer formed by periodic arrays of circular and non-circular cylinders**
Baytas A. C., Erdem D., Acar H., Cetiner O., Basci H.
Acta Physica Polonica A, vol.133, no.5, pp.1314-1323, 2018 (SCI-Expanded)

VI. **Force-motion phase relations and aerodynamic performance of a plunging plate**
Son O., Cetiner O.
EXPERIMENTS IN FLUIDS, vol.59, no.2, 2018 (SCI-Expanded)

VII. **Three-Dimensionality Effects due to Change in the Aspect Ratio for the Flow around an Impulsively Pitching Flat Plate**
Son O., Cetiner O.
JOURNAL OF AEROSPACE ENGINEERING, vol.30, no.5, 2017 (SCI-Expanded)

VIII. **Drag Prediction in the Near Wake of a Circular Cylinder based on DPIV Data**
SON O., Çetiner Yıldırım N. L. O.
Journal of Applied Fluid Mechanics, vol.9, no.4, pp.1963-1968, 2016 (SCI-Expanded)

IX. **Effect of unequal flapping frequencies on flow structures**
Fenercioglu I., Cetiner O.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.35, pp.39-53, 2014 (SCI-Expanded)

X. **Preliminary investigation of a swirl stabilized premixed combustor**
Tunçer O., KAYNAROGLU B., KARAKAYA M. C., KAHRAMAN S., CETINER-YILDIRIM O., BAYTAS C.
FUEL, vol.115, pp.870-874, 2014 (SCI-Expanded)

XI. **Categorization of flow structures around a pitching and plunging airfoil**
Fenercioglu I., Cetiner O.
JOURNAL OF FLUIDS AND STRUCTURES, vol.31, pp.92-102, 2012 (SCI-Expanded)

XII. **Interaction of circular cylinder wake with a short asymmetrically located downstream plate**
Yucel S. B., Cetiner O., Unal M. F.
EXPERIMENTS IN FLUIDS, vol.49, no.1, pp.241-255, 2010 (SCI-Expanded)

XIII. **Effect of self-issuing jets along the span on the near-wake of a square cylinder**
Aydin B. T., Cetiner O., Unal M. F.
EXPERIMENTS IN FLUIDS, vol.48, no.6, pp.1081-1094, 2010 (SCI-Expanded)

XIV. **Acceleration data correlated with PIV images for self-induced vibrations of an airfoil**
Tinar E., Cetiner O.
EXPERIMENTS IN FLUIDS, vol.41, no.2, pp.201-212, 2006 (SCI-Expanded)

XV. **Quantitative imaging of the wake of a cylinder in a steady current and free-surface waves**
ROCKWELL D., LIN J., Cetiner O., DOWNES K., YANG Y.
JOURNAL OF FLUIDS AND STRUCTURES, vol.15, pp.427-443, 2001 (SCI-Expanded)

XVI. **Streamwise oscillations of a cylinder in a steady current. Part 1. Locked-on states of vortex**

formation and loading
Cetiner O., ROCKWELL D.
JOURNAL OF FLUID MECHANICS, vol.427, pp.1-28, 2001 (SCI-Expanded)

XVII. **Streamwise oscillations of a cylinder in steady current. Part 2. Free-surface effects on vortex formation and loading**
Cetiner O., ROCKWELL D.
JOURNAL OF FLUID MECHANICS, vol.427, pp.29-59, 2001 (SCI-Expanded)

Articles Published in Other Journals

I. **Çırpan kanatta kanat profilinin etkisi**
Karakaş F., Paça O., Köse C., Son O., Zaloğlu B., Fenercioğlu Aydın İ., Çetiner Yıldırım N. L. O.
Havacılık ve Uzay Teknolojileri Dergisi (HUTEN), vol.7, no.2, pp.55-70, 2014 (Peer-Reviewed Journal)

Supported Projects

Çetiner Yıldırım N. L. O., Project Supported by Higher Education Institutions, Çırpan Kanat Aerodinamiğinde Esneklik Etkisinin Deneysel İncelenmesi, 2013 - 2019
Çetiner Yıldırım N. L. O., TUBITAK Project, İha Ve Mha'Lara Yönelik Olarak, Sağanak Etkisi Altında Hareket Eden (Manevra Veya Çırpma) Kanatların Performansı Ve Akış Kontrol Girişimi, 2015 - 2018
Çetiner Yıldırım N. L. O., Project Supported by Other Official Institutions, Delikli plakalarda basınç düşüşü ve kayıp katsayısının deneysel olarak belirlenmesi, 2016 - 2016
Çetiner Yıldırım N. L. O., H2020 Project, NIOPLEX Non intrusive Optical Pressure and Loads Extraction for Aerodynamic Analysis Aerodinamik Analizler için Akışa Müdahalesiz Optik Yöntemlerle Basınç ve Yük Çıkarımı, 2013 - 2016
Çetiner Yıldırım N. L. O., Project Supported by Higher Education Institutions, Sensitivity analysis for pressure/loads determination from PIV velocity data, 2015 - 2015
Çetiner Yıldırım N. L. O., TUBITAK Project, 112M682 Periyodik veya Ani ve Geçici Hareket Eden Bir Çırpan Kanada Etkiyen Daimi Olmayan Yüklerin ve Akım Yapılarının İncelenmesi, 2013 - 2015
Çetiner Yıldırım N. L. O., Project Supported by Higher Education Institutions, DAİMİ AKIŞTA YUNUSLAMA VE ÖTELENME YAPAN BİR KANAT ETRAFINDAKİ AKIŞ, 2009 - 2012
Baytaş A. C., Çetiner Yıldırım N. L. O., Erdem D., Acar H., TUBITAK Project, Bir Kısmı Gözenekli Ortam İhtiva Eden Yatay Dikdörtgen Kesitli Bir Kanal İçinde Akışkan/Gözenekli Ortam Ara Yüzey Bölgesinde Hız Alanının Deneysel Olarak Tespit Edilmesi, 2008 - 2011
Çetiner Yıldırım N. L. O., Project Supported by Higher Education Institutions, Etkileşimli Kanat- Silindir İz Akışları, 2005 - 2007

Scientific Refereeing

Journal of Fluids and Structures, SCI Journal, June 2017
Experiments in Fluids, SCI Journal, May 2017
Experiments in fluids, SCI Journal, March 2017
Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, National Scientific Refreed Journal, March 2017
Computers and Fluids, SCI Journal, February 2017
June 2015

Scientific Research / Working Group Memberships

Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters, NATO STO AVT, France, www.sto.nato.int, 2015 -

Continues

Metrics

Publication: 49
Citation (WoS): 147
Citation (Scopus): 190
H-Index (WoS): 7
H-Index (Scopus): 8