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### International Researcher IDs

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### Education Information

Doctorate, Cukurova University, Fen Bilimler Enstitüsü, Makine Mühendisliği Abd, Turkey  
1994 - 1999

Postgraduate, Cukurova University, Fen Bilimler Enstitüsü, Makine Mühendisliği Abd,  
Turkey 1992 - 1994

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimler Fakültesi, Uçak  
Mühendisliği, Turkey 1987 - 1991

### Dissertations

Doctorate, Experimental and Numerical Investigation of Gas-Particle Flow after a 90o Vertical-to-Horizontal Elbow,  
Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Abd, 1999

Postgraduate, Sonlu Elemanlar Yöntemi ile Orifis Etrafındaki Akış Karakteristiklerinin Hesaplanması , Cukurova  
University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Abd, 1994

### Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Aeronautical and Space Engineering, Aeronautical Engineering , Flight  
Sciences, Aerodynamics, Engineering and Technology

### Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, 2011 - Continues

### Academic and Administrative Experience

Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2011 - Continues

Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2002 - 2011

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An experimental investigation of the flow control of a circular cylinder in near wake with parallel plates at  $Re = 7500$**   
Durhasan T., Ekinci F., Firat E., AKILLI H.  
International Journal of Heat and Fluid Flow, vol.106, 2024 (SCI-Expanded)
- II. **Effect of Permeability and Length of a Perforated Splitter Plate Downstream of the Circular Cylinder**  
ŞAHİN S., Durhasan T., PINAR E., AKILLI H.  
Journal of Applied Fluid Mechanics, vol.17, no.12, pp.2623-2636, 2024 (SCI-Expanded)
- III. **Fuel characterization and gasification of sunflower waste in sub- and supercritical water with influence of catalysts on optimum state**  
Türkmen H., DİKER İ., Faki E., AKILLI H.  
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- IV. **Experimental and Numerical Investigation of Flow Characteristics Around Complex Bridge Piers in Different Geometries**  
Tantekin A., Tumen Ozdil N. F., AKILLI H.  
International Journal of Computational Fluid Dynamics, 2024 (SCI-Expanded)
- V. **Near-surface particle image velocimetry measurements over a yawed slender delta wing**  
Karasu I., TÛMSE S., TAŞÇI M., ŞAHİN B., AKILLI H.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.235, no.16, pp.2466-2478, 2021 (SCI-Expanded)
- VI. **The impact of the pitching motion on the structure of the vortical flow over a slender delta wing under sideslip angle**  
Tasci M. O., Pektas M. C., TÛMSE S., Karasu I., ŞAHİN B., AKILLI H.  
JOURNAL OF VISUALIZATION, vol.24, no.3, pp.437-442, 2021 (SCI-Expanded)
- VII. **Experimental study on passive flow control of circular cylinder via perforated splitter plate**  
Sahin S., Durhasan T., PINAR E., AKILLI H.  
WIND AND STRUCTURES, vol.32, no.6, pp.613-621, 2021 (SCI-Expanded)
- VIII. **Investigation of crossflow features of a slender delta wing**  
Tasci M. O., Karasu I., ŞAHİN B., AKILLI H.  
WIND AND STRUCTURES, vol.31, no.3, pp.229-240, 2020 (SCI-Expanded)
- IX. **Flow past a hollow cylinder with two spanwise rows of holes**  
Firat E., ÖZKAN G. M., AKILLI H.  
EXPERIMENTS IN FLUIDS, vol.60, no.11, 2019 (SCI-Expanded)
- X. **Flow comparison around horizontal single and tandem cylinders at different immersion elevations**  
OZDIL N. F. T., AKILLI H.  
OCEAN ENGINEERING, vol.189, 2019 (SCI-Expanded)
- XI. **Control of the flow past a sphere near a flat wall using passive jet**  
Okbaz A., Ozgoren M., Dogan S., CANPOLAT Ç., AKILLI H., ŞAHİN B.  
OCEAN ENGINEERING, vol.187, 2019 (SCI-Expanded)
- XII. **Effect of Yaw Angles on Aerodynamics of a Slender Delta Wing**  
KARASU I., ŞAHİN B., TAŞÇI M., AKILLI H.  
JOURNAL OF AEROSPACE ENGINEERING, vol.32, no.5, 2019 (SCI-Expanded)
- XIII. **Supercritical water gasification of wastewater sludge for hydrogen production**  
IBRAHİM A. B. A., AKILLI H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.21, pp.10328-10349, 2019 (SCI-Expanded)
- XIV. **The effect of shroud on vortex shedding mechanism of cylinder**  
DURHASAN T., PINAR E., ÖZKAN G. M., AKILLI H., ŞAHİN B.  
APPLIED OCEAN RESEARCH, vol.84, pp.51-61, 2019 (SCI-Expanded)
- XV. **PIV measurement downstream of perforated cylinder in deep water**  
DURHASAN T., PINAR E., ÖZKAN G. M., Aksoy M. M., AKILLI H., ŞAHİN B.

- EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.72, pp.225-234, 2018 (SCI-Expanded)
- XVI. **Effects of Permeable Cylinder on the Flow Structure in Deep Water**  
Sanli B. G., AKILLI H.  
FLUID DYNAMICS, vol.53, no.5, pp.711-721, 2018 (SCI-Expanded)
- XVII. **Investigation of interactions between a sphere wake and free surface**  
Dogan S., Ozgoren M., Okbaz A., ŞAHİN B., AKILLI H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.33, no.3, pp.1123-1133, 2018 (SCI-Expanded)
- XVIII. **Effects of Trailing-Edge Attachment on the Flow Structure over a Generic Delta Wing**  
CANPOLAT Ç., Yayla S., ŞAHİN B., AKILLI H.  
JOURNAL OF AEROSPACE ENGINEERING, vol.30, no.5, 2017 (SCI-Expanded)
- XIX. **Control of Vortex Shedding Using a Screen Attached on the Separation Point of a Circular Cylinder and Its Effect on Drag**  
ÖZKAN G. M., Firat E., AKILLI H.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.139, no.7, 2017 (SCI-Expanded)
- XX. **PIV measurements in the near wakes of hollow cylinders with holes**  
Firat E., ÖZKAN G. M., AKILLI H.  
EXPERIMENTS IN FLUIDS, vol.58, no.5, 2017 (SCI-Expanded)
- XXI. **Passive flow control in the near wake of a circular cylinder using attached permeable and inclined short plates**  
ÖZKAN G. M., Firat E., Akilli H.  
OCEAN ENGINEERING, vol.134, pp.35-49, 2017 (SCI-Expanded)
- XXII. **Vortex street suppression of a circular cylinder using perforated semi-circular fairing in shallow water**  
DURHASAN T., Aksoy M. M., PINAR E., ÖZKAN G. M., AKILLI H., ŞAHİN B.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.79, pp.101-110, 2016 (SCI-Expanded)
- XXIII. **Flow behavior downstream of two side-by-side circular cylinders in shallow water**  
AKAR M. A., Oguz B., AKILLI H., ŞAHİN B.  
CANADIAN JOURNAL OF PHYSICS, vol.94, no.10, pp.975-981, 2016 (SCI-Expanded)
- XXIV. **Time-averaged near-wake of a yawed cylinder**  
NAJAFI L., FIRAT E., AKILLI H.  
OCEAN ENGINEERING, vol.113, pp.335-349, 2016 (SCI-Expanded)
- XXV. **PIV measurements on the passive control of flow past a circular cylinder**  
Oruc V., AKILLI H., ŞAHİN B.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.70, pp.283-291, 2016 (SCI-Expanded)
- XXVI. **Flow past a square prism with an upstream control rod at incidence to uniform stream**  
Firat E., Akansu Y. E., AKILLI H.  
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- XXVII. **Flow structure around perforated cylinders in shallow water**  
PINAR E., ÖZKAN G. M., DURHASAN T., Aksoy M. M., AKILLI H., ŞAHİN B.  
JOURNAL OF FLUIDS AND STRUCTURES, vol.55, pp.52-63, 2015 (SCI-Expanded)
- XXVIII. **Investigation of flow structure around a horizontal cylinder at different elevations in shallow water**  
OZDIL N. F. T., AKILLI H.  
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- XXIX. **Shallow water experiments of flow past two identical square cylinders in tandem**  
PINARBAŞI A., PINAR E., AKILLI H., INCE E.  
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- XXX. **Flow control downstream of a circular cylinder by a permeable cylinder in deep water**  
Gozmen B., AKILLI H.  
WIND AND STRUCTURES, vol.19, no.4, pp.389-404, 2014 (SCI-Expanded)
- XXXI. **Experimental and numerical studies of the flow around the Ahmed body**

- TUNAY T., ŞAHİN B., AKILLI H.  
WIND AND STRUCTURES, vol.17, no.5, pp.515-535, 2013 (SCI-Expanded)
- XXXII. **Experimental Study of Flow Structures around Side-by-Side Spheres**  
PINAR E., ŞAHİN B., OZGOREN M., AKILLI H.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, no.40, pp.14492-14503, 2013 (SCI-Expanded)
- XXXIII. **The effect of angle of attack on the flow structure over the nonslender lambda wing**  
YAYLA S., CANPOLAT Ç., ŞAHİN B., AKILLI H.  
AEROSPACE SCIENCE AND TECHNOLOGY, vol.28, no.1, pp.417-430, 2013 (SCI-Expanded)
- XXXIV. **Passive control of circular cylinder wake in shallow flow**  
GÖZMEN B., AKILLI H., ŞAHİN B.  
MEASUREMENT, vol.46, no.3, pp.1125-1136, 2013 (SCI-Expanded)
- XXXV. **Investigation of flow characteristics around a sphere placed in a boundary layer over a flat plate**  
OZGOREN M., OKBAZ A., DOĞAN S., ŞAHİN B., AKILLI H.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.44, pp.62-74, 2013 (SCI-Expanded)
- XXXVI. **Suppression of asymmetric flow behavior downstream of two side-by-side circular cylinders with a splitter plate in shallow water**  
ORUC V., AKAR M. A., AKILLI H., ŞAHİN B.  
MEASUREMENT, vol.46, no.1, pp.442-455, 2013 (SCI-Expanded)
- XXXVII. **Flow structure over the yawed nonslender diamond wing**  
ŞAHİN B., YAYLA S., CANPOLAT Ç., AKILLI H.  
AEROSPACE SCIENCE AND TECHNOLOGY, vol.23, no.1, pp.108-119, 2012 (SCI-Expanded)
- XXXVIII. **Flow around a cylinder surrounded by a permeable cylinder in shallow water**  
ÖZKAN G. M., ORUC V., AKILLI H., ŞAHİN B.  
EXPERIMENTS IN FLUIDS, vol.53, no.6, pp.1751-1763, 2012 (SCI-Expanded)
- XXXIX. **Observation of the Vortical Flow over a Yawed Delta Wing**  
CANPOLAT Ç., YAYLA S., ŞAHİN B., AKILLI H.  
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.4, pp.613-626, 2012 (SCI-Expanded)
- XL. **Comparison of flow structures in the downstream region of a cylinder and sphere**  
OZGOREN M., PINAR E., ŞAHİN B., AKILLI H.  
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.32, no.6, pp.1138-1146, 2011 (SCI-Expanded)
- XLI. **Flow characteristic of the horizontal cylinder placed on the plane boundary**  
AKÖZ M. S., ŞAHİN B., AKILLI H.  
FLOW MEASUREMENT AND INSTRUMENTATION, vol.21, no.4, pp.476-487, 2010 (SCI-Expanded)
- XLII. **Yaw Angle Effect on Flow Structure over the Nonslender Diamond Wing**  
YAYLA S., CANPOLAT Ç., ŞAHİN B., AKILLI H.  
AIAA JOURNAL, vol.48, no.10, pp.2457-2461, 2010 (SCI-Expanded)
- XLIII. **Artificial neural network approaches for prediction of backwater through arched bridge constrictions**  
PINAR E., PAYDAS K., SEÇKİN G., AKILLI H., ŞAHİN B., COBANER M., KOCAMAN S., AKAR M. A.  
ADVANCES IN ENGINEERING SOFTWARE, vol.41, no.4, pp.627-635, 2010 (SCI-Expanded)
- XLIV. **Qualitative and quantitative measurements of horseshoe vortex formation in the junction of horizontal and vertical plates**  
ŞAHİN B., AKILLI H., KARAKUS C., AKAR M. A., ÖZKUL E.  
MEASUREMENT, vol.43, no.2, pp.245-254, 2010 (SCI-Expanded)
- XLV. **Dye Visualization of the Flow Structure over a Yawed Nonslender Delta Wing**  
CANPOLAT Ç., YAYLA S., ŞAHİN B., AKILLI H.  
JOURNAL OF AIRCRAFT, vol.46, no.5, pp.1818-1822, 2009 (SCI-Expanded)
- XLVI. **Flow structures around a three-dimensional rectangular body with ground effect**  
GÜRLEK C., ŞAHİN B., ÖZALP C., AKILLI H.  
WIND AND STRUCTURES, vol.11, no.5, pp.345-359, 2008 (SCI-Expanded)
- XLVII. **Control of vortex shedding of circular cylinder in shallow water flow using an attached splitter plate**

- AKILLI H., KARAKUŞ C., Akar A., ŞAHİN B., Tumen N. F.  
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.130, no.4, 2008 (SCI-Expanded)
- XLVIII. **Formation, structure, and development of near-field wing tip vortices**  
Karakus C., AKILLI H., ŞAHİN B.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.222, pp.13-22, 2008 (SCI-Expanded)
- XLIX. **Horseshoe vortex system in the vicinity of the vertical cylinder mounted on a flat plate**  
Sahin B., Ozturk N. A., Akilli H.  
FLOW MEASUREMENT AND INSTRUMENTATION, vol.18, no.2, pp.57-68, 2007 (SCI-Expanded)
- L. **Investigations of flow characteristics in a plate fin and tube heat exchanger model composed of single cylinder**  
Sahin B., AKKOCA A., ÖZTÜRK N. A., Akilli H.  
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.27, no.3, pp.522-530, 2006 (SCI-Expanded)
- LI. **Effect of inlet port on the flow in the cylinder of an internal combustion engine**  
Yasar A., Sahin B., Akilli H., Aydin K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.220, no.1, pp.73-82, 2006 (SCI-Expanded)
- LII. **Suppression of vortex shedding of circular cylinder in shallow water by a splitter plate**  
Akilli H., Sahin B., Tumen N.  
FLOW MEASUREMENT AND INSTRUMENTATION, vol.16, no.4, pp.211-219, 2005 (SCI-Expanded)
- LIII. **The wind power potential of the eastern Mediterranean region of Turkey**  
Sahin B., Bilgili M., Akilli H.  
JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS, vol.93, no.2, pp.171-183, 2005 (SCI-Expanded)
- LIV. **Investigation of gas-solid flow structure after a 90 degrees vertical-to-horizontal elbow for low conveying gas velocities**  
Akilli H., LEVY E., Sahin B.  
ADVANCED POWDER TECHNOLOGY, vol.16, no.3, pp.261-274, 2005 (SCI-Expanded)
- LV. **Investigation of laminar and turbulent flow through an orifice plate inserted in a pipe**  
TUNAY T., Sahin B., Akilli H.  
TRANSACTIONS OF THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING, vol.28, pp.403-414, 2004 (SCI-Expanded)
- LVI. **Control of vortex breakdown by a coaxial wire**  
Akilli H., Sahin B., ROCKWELL D.  
PHYSICS OF FLUIDS, vol.15, no.1, pp.123-133, 2003 (SCI-Expanded)
- LVII. **Vortex formation from a cylinder in shallow water**  
Akilli H., ROCKWELL D.  
PHYSICS OF FLUIDS, vol.14, no.9, pp.2957-2967, 2002 (SCI-Expanded)
- LVIII. **Gas-solid flow behavior in a horizontal pipe after a 90 degrees vertical-to-horizontal elbow**  
Akilli H., LEVY E., Sahin B.  
POWDER TECHNOLOGY, vol.116, no.1, pp.43-52, 2001 (SCI-Expanded)
- LIX. **Vortex breakdown-edge interaction: Consequence of edge oscillations**  
Sahin B., Akilli H., Lin J., ROCKWELL D.  
AIAA JOURNAL, vol.39, no.5, pp.865-876, 2001 (SCI-Expanded)
- LX. **Control of vortex breakdown by a transversely oriented wire**  
Akilli H., Sahin B., ROCKWELL D.  
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- LXI. **Finite element solution of laminar flow through square-edged orifice with a variable thickness**  
Sahin B., Akilli H.  
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## Articles Published in Other Journals

- I. **Vortex Suppression Downstream of a Cylinder via Guide Vanes**  
ekinci f., Durhasan T., Akilli H.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.3, pp.593-601, 2023 (Peer-Reviewed Journal)
- II. **Base Bleed Flow Control Tool for Circular Cylinders with three Side-By-Side Arrangements in Shallow Water**  
AKAR M. A., AKILLI H.  
International Journal of Pioneering Technology and Engineering, vol.2, no.1, pp.128-134, 2023 (Peer-Reviewed Journal)
- III. **Design of Composite Sandwich Chassis and Application to Urban Concept Electric Vehicles**  
UZAY Ç., ACER D. C., GEREN N., AKILLI H.  
International Journal of Mechanical and Production Engineering (IJMPE), vol.6, no.9, pp.41-45, 2018 (Scopus)
- IV. **Experimental Investigation Of Flow Structure Downstream Of Permeable Cylinders**  
ŞANLI B., AKILLI H.  
Turkish Journal of Engineering (TUJE), vol.2, no.2, pp.54-59, 2018 (Peer-Reviewed Journal)
- V. **Use of the Tea Wastes in Pleurotus Cultivation as an Alternative Substrate Material in Turkey under Conventional Controlled Climate**  
BAKTEMUR G., TAŞKIN H., GÜZELEL Y. E., BÜYÜKALACA O., AKILLI H.  
International Journal of Advances in Science Engineering and Technology, vol.6, no.1, pp.13-16, 2018 (Peer-Reviewed Journal)
- VI. **The effect of the splitter plates on flow characteristics that are vertically placed to the flow between side by side cylinders in shallow water**  
AKAR M. A., AKILLI H., BAŞ O., Oğuz B., PINAR E., ŞAHİN B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.4, pp.582-585, 2018 (ESCI)
- VII. **Derin suda dairesel silindir arkasında meydana gelen akış yapısının örgü teller ile kontrol edilmesi**  
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- VIII. **Control of flow structure in the wake region of circular cylinder with meshy wire in deep water**  
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- IX. **Control of Vortex Shedding around a Circular Cylinder by Using Mesh Wire**  
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- X. **Estimation of Aerodynamic Characteristics for a Horizontal Axis Wind Turbine**  
İLHAN A., BİLGİLİ M., ŞAHİN B., AKILLI H.  
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- XI. **DYE VISUALIZATION OF A YAWED SLENDER DELTA WING**  
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- XII. **Effects of permeable cylinders on wake region**  
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- XIII. **Control of Vortex Shedding around a Circular Cylinder by Using Meshy Wire**  
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International Journal of Scientific and Technological Research, vol.1, no.7, pp.18-26, 2015 (Peer-Reviewed Journal)
- XIV. **Flow Control around Bluff Bodies by Attached Permeable Plates**  
ÖZKAN G. M., AKILLI H.

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- XV. **Vortex Control of Cylinder Wake by Permeable Cylinder**  
GÖZMEN B., AKILLI H., ŞAHİN B.  
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- XVI. **Vortex control of cylinder wake by permeable cylinder**  
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- XVII. **Sığ Suda Yanyana Sıralı İki Silindir Arkasındaki Daimi Olmayan Akış Yapısının İncelenmesi**  
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Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.26, no.2, pp.99-104, 2011 (Peer-Reviewed Journal)
- XVIII. **ANN approaches for the prediction of bridge backwater using both field and experimental data**  
PINAR E., SEÇKİN G., ŞAHİN B., AKILLI H., Cobaner M., CANPOLAT Ç., ATABAY S., Kocaman S.  
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- XIX. **Unsteady Flow Characteristics Behind Two Side-By-Side Cylinders Arranged In Shallow Water**  
ŞAHİN B., Akar M., AKILLI H.  
Ç.Ü. Müh. Mim. Fak. Dergisi, vol.26, pp.99-104, 2011 (Peer-Reviewed Journal)
- XX. **Sığ Suda Yan Yana Sıralı İki Silindir Arkasında Oluşan Akış Yapısının Pasif Yöntemle Kontrolü**  
AKAR M. A., AKILLI H.  
Ç.Ü. Fen Bilimleri Enstitüsü, vol.19, no.3, pp.20-24, 2008 (Peer-Reviewed Journal)
- XXI. **Effect of plates with different height to flow structure behind circular cylinders**  
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Ç. Ü. Müh. Mim. Fak. Dergisi, vol.22, pp.175-184, 2007 (Peer-Reviewed Journal)
- XXII. **Akışkanlar Mekaniği Uygulamalarında Parçacık Görüntülemeli Hız Ölçme Tekniği**  
ŞAHİN B., AKILLI H., ÖZTÜRK N. A., KARAKUŞ C., KAHRAMAN A., AKAR M. A., YANIKTEPE B., ÖZALP C.  
Ç.Ü. Müh. Mim. Fak. Dergisi, vol.18, no.18, pp.103-111, 2003 (Peer-Reviewed Journal)
- XXIII. **İki Fazlı Katı Akış**  
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- XXIV. **Akışkanlar Mekaniği Uygulamalarında Parçacık Görüntülemeli Hız Ölçme Tekniği (PIV)**  
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- XXV. **Doğu Akdeniz Bölgesinin Rüzgar Hızı ve enerji Potansiyeli**  
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## **Metrics**

Publication: 236

Citation (WoS): 974

Citation (Scopus): 1169

H-Index (WoS): 17

H-Index (Scopus): 20