



BURÇİN DEDA ALTAN

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International Researcher IDs

ORCID: 0000-0001-6834-9215

Publons / Web Of Science ResearcherID: IQS-6053-2023

ScopusID: 24479606900

Yoksis Researcher ID: 55473

Learning Knowledge

Doctorate 2001 - 2006	Pamukkale University, Institute Of Science, Makina Mühendisliği Anabilim Dalı, Turkey
Postgraduate 1997 - 2000	Pamukkale University, Institute Of Science, Makina Mühendisliği Anabilim Dalı, Turkey
Undergraduate 1993 - 1997	Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Perdeleme yöntemi ile Savonius rüzgar çarkının performansının incelenmesi, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2006

Postgraduate, Rüzgar enerjisi ve Savonius rüzgar çarklarının performanslarının artırılması, Pamukkale University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, 2000

Academic Titles / Tasks

Professor 2024 - Continues	Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering
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Associate Professor
2019 - 2024

Akdeniz University, Faculty of Engineering, Department of Mechanical Engineering

Associate Professor
2017 - 2019

Pamukkale University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü

Assistant Professor
2009 - 2017

Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering

Research Assistant PhD
2006 - 2009

Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering

Research Assistant
1997 - 2006

Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering

Supported Projects

1. Deda Altan B., TUBITAK Project, Otomotiv ve Isı Yalıtım Endüstrileri için Yeni Yanmaya Dirençli Poliüretan Esaslı Malzeme Geliştirilmesi ve Bu Malzemelerin Isıl Bozulma ve Yanma Davranışlarının Deneysel ve Teorik İncelenmesi, 2008 - 2011
2. Deda Altan B., Project Supported by Higher Education Institutions, Savonius Tipi Rüzgar Çarkının Sayısal ve Deneysel Yöntemlerle Performansının İncelenmesi, 2003 - 2005

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Effect of Blade Gap Ratio on Turbine Performance in Drag-Based Vertical-Axis Wind Turbines**
ALTAN G., DEDA ALTAN B.
Processes, vol.12, no.10, 2024 (SCI-Expanded)
2. **Investigation of the turbine performances in the case of dual usage of Savonius wind turbines**
DEDA ALTAN B., GÜNGÖR A.
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, vol.237, no.6, pp.2192-2201, 2023 (SCI-Expanded)
3. **Enhancing the Performance of Savonius Wind Turbines with Wind Router**
Altan B., Gungor A.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF MECHANICAL ENGINEERING, vol.47, no.3, pp.989-999, 2023 (SCI-Expanded)
4. **Investigation of Performance Enhancements of Savonius Wind Turbines through Additional Designs**
Deda Altan B., Gultekin G. S.
Processes, vol.11, no.5, pp.1-23, 2023 (SCI-Expanded)
5. **Improvement of Savonius Wind Turbine Performance with Using Wind Collector**
Deda Altan B., Güngör A.
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, vol.5, pp.20-28, 2023 (SCI-Expanded)
6. **Examination of the Effect of Triangular Plate on the Performances of Reverse Rotating Dual Savonius Wind Turbines**
Altan B., GÜNGÖR A.
Processes, vol.10, no.11, 2022 (SCI-Expanded)

7. **Numerical and experimental analysis of a 3D printed Savonius rotor with built-in extension plate**
Altan B., KOVAN V., Altan G.
WIND AND STRUCTURES, vol.27, no.1, pp.1-9, 2018 (SCI-Expanded)
8. **Investigation of 3D printed Savonius rotor performance**
Altan B., Altan G., KOVAN V.
RENEWABLE ENERGY, vol.99, pp.584-591, 2016 (SCI-Expanded)
9. **The numerical simulation of the performances of water rotors used in pipelines with the water baffle plates**
Altan B.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.28, no.11, pp.4555-4562, 2014 (SCI-Expanded)
10. **A study on increasing the performance of Savonius wind rotors**
Altan B., Atilgan M.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.26, no.5, pp.1493-1499, 2012 (SCI-Expanded)
11. **The use of a curtain design to increase the performance level of a Savonius wind rotors**
Altan B., Atilgan M.
RENEWABLE ENERGY, vol.35, no.4, pp.821-829, 2010 (SCI-Expanded)
12. **An experimental and numerical study on the improvement of the performance of Savonius wind rotor**
Altan B., Atilgan M.
ENERGY CONVERSION AND MANAGEMENT, vol.49, no.12, pp.3425-3432, 2008 (SCI-Expanded)
13. **Elastic-plastic thermal stress analysis of an aluminum composite disc under parabolic thermal load distribution**
Altan G., Topcu M., Bektas N. B., Altan B.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.22, no.12, pp.2318-2327, 2008 (SCI-Expanded)
14. **An experimental study on improvement of a Savonius rotor performance with curtaining**
Altan B., Atilgan M., Ozdamar A.
EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.32, no.8, pp.1673-1678, 2008 (SCI-Expanded)
15. **THERMAL ELASTIC-PLASTIC STRESS ANALYSIS OF AN ALUMINIUM COMPOSITE DISC UNDER LINEARLY DECREASING THERMAL LOADING**
Topcu M., Altan G., Callioglu H., Altan B.
ADVANCED COMPOSITES LETTERS, vol.17, no.3, pp.87-96, 2008 (SCI-Expanded)

Articles Published in Other Journals

1. **Enhancement of the Performance of Vertical Axis Wind Rotors with Straight Blades**
Deda Altan B.
European Mechanical Science, vol.7, no.2, pp.49-55, 2023 (Peer-Reviewed Journal)
2. **Olive Cake as a Fuel: A Comparison with Lignite**
YAKAR G., DEDA ALTAN B.
IJRASET : INTERNATIONAL JOURNAL FOR RESEARCH IN APPLIED SCIENCE AND ENGINEERING TECHNOLOGY, vol.6, no.5, pp.92-97, 2018 (Peer-Reviewed Journal)
3. **Experimental Investigation on Thermal Conductivity of Building Materials Manufactured from Paper Wastes**
ALTAN G., DEDA ALTAN B.
IJRASET : INTERNATIONAL JOURNAL FOR RESEARCH IN APPLIED SCIENCE AND ENGINEERING TECHNOLOGY, vol.6, no.5, pp.33-39, 2018 (Peer-Reviewed Journal)
4. **Geçiş ve Kanal Borularının Tasarımı**
Atilgan M., Deda Altan B., Atalay Ö.
Tesisat Mühendisliği, vol.1, no.114, pp.10-20, 2009 (Peer-Reviewed Journal)
5. **Hidrojen Teknolojisinin Gelişimi**

- Yakar G., Deda Altan B.
Termodinamik, vol.1, no.152, pp.54-56, 2005 (Peer-Reviewed Journal)
6. **COMPARISON OF ENERGY AND EXERGY EFFICIENCIES OF ABSORPTION REFRIGERATION SYSTEM WITH MECHANICAL COMPRESSION REFRIGERATION SYSTEM**
Yakar G., Karabacak R., Altan B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.11, no.2, pp.161-169, 2005 (Peer-Reviewed Journal)
7. **Savonius Rüzgar Çarklarının Performansının Geliştirilmesi ve Karşılaştırılması**
Atılğan M., Deda Altan B.
Mühendis ve Makina, vol.45, no.1, pp.30-34, 2004 (Peer-Reviewed Journal)
8. **Doğal Gazın ve Yenilenebilir Enerji Kaynaklarının Türkiye'nin Enerji Politikası Açısından Değerlendirilmesi**
Atılğan M., Öztürk H. K., Deda Altan B., Yılmaz E.
Tesisat Mühendisliği, vol.72, pp.51-56, 2002 (Peer-Reviewed Journal)

Books & Book Chapters

1. **The Wind Energy Potential for Urban Electricity**
Boyacı Ö., Yavuz S., Güngör A., Deda Altan B.
in: Versatile Multidisciplinary Engineering Research, x, Editor, European Press Academic Publishing , Alloo, pp.1-18, 2022
2. **Isı İletimine Giriş**
DEDA ALTAN B.
in: Isı Transferi, Prof. Dr. Aydoğan Özdamar, Mak. Y. Müh. Dilara Koçak, Editor, Seçkin Yayıncılık, Ankara, pp.50-60, 2020

Refereed Congress / Symposium Publications in Proceedings

1. **Investigation of The Effect of Additional Arrangements on Turbine Performance in Vertical Axis Wind Turbines**
DEDA ALTAN B.
Euroasia Summit Congress on Scientific Researches and Recent Trends-7, Baku, Azerbaijan, 6 - 09 December 2020, pp.263-270
2. **Investigation of the Usability of Three Dimensional Printer Technology in Wind Turbines**
Deda Altan B.
Cukurova 5th International Scientific Researches Conference, Adana, Turkey, 9 - 11 October 2020, pp.81-88
3. **Investigation of Savonius Wind Rotors with Exterior Design**
Deda Altan B.
Cukurova 5th International Scientific Researches Conference, Adana, Turkey, 9 - 11 October 2020, pp.89-98
4. **Rüzgar Türbini Uygulamaları**
Atılğan M., Deda Altan B., Atlıhan A. B.
2. Rüzgar Enerjisi Sempozyumu (Rüges 2009), Samsun, Turkey, 4 - 05 June 2009, pp.67-73
5. **Savonius Rüzgar Çarklarının İyileştirilmesinde Son Gelişmeler**
Deda Altan B., Atılğan M., Yakar G.
II. Ege Enerji Sempozyumu ve Sergisi, Kütahya, Turkey, 26 - 28 May 2004, pp.243-247
6. **Isı Değiştiricilerinin Konstrüksiyon Özelliklerine Göre İncelenmesi ve Performansları Yönünden Karşılaştırılmaları**
Yakar G., Öztürk H. K., Deda Altan B., Karabacak R.
I. Ege Enerji Sempozyumu ve Sergisi, Denizli, Turkey, 22 - 24 May 2003, pp.417-424

7. **Türkiye'nin Rüzgar Enerjisi Uygulamaları ve Politikaları**
Deda Altan B., Öztürk H. K., Yakar G., Atılğan M.
I. Ege Enerji Sempozyumu ve Sergisi, Denizli, Turkey, 22 - 24 May 2003, pp.417-424
8. **Savonius Rüzgar Çarklarının Performanslarının Arttırılması**
Deda Altan B., Öztürk H. K., Atılğan M.
Yenilenebilir Enerji Kaynakları Sempozyumu ve Sergisi, Kayseri, Turkey, 12 - 13 October 2001, pp.157-164
9. **Savonius Rüzgar Çarklarının Performanslarının İyileştirilmesi**
Deda Altan B., Öztürk H. K., Atılğan M.
III. Ulusal Temiz Enerji Sempozyumu, İstanbul, Turkey, 15 - 17 November 2000, pp.423-430
10. **Savonius Tipi Rüzgar Çarklarının Performanslarının İncelenmesi**
Deda Altan B., Öztürk H. K., Atılğan M.
Bilim Günleri, Denizli, Turkey, 5 - 09 May 1999, pp.315-322

Courses

Rüzgar Enerjisi Uygulamaları, Postgraduate, 2022 - 2023, 2021 - 2022
Rüzgar Enerjisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Rüzgar Enerjisi, Postgraduate, 2023 - 2024, 2022 - 2023
Dış Akışlar, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Hidrolik Makineleri, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Bitirme Çalışması, Undergraduate, 2020 - 2021
Yenilenebilir Enerji Kaynakları, Undergraduate, 2021 - 2022, 2020 - 2021
Tesisat, Associate Degree, 2021 - 2022, 2019 - 2020
Fabrika Organizasyonu, Undergraduate, 2019 - 2020
Makine Proje, Undergraduate, 2020 - 2021
Seminer, Undergraduate, 2019 - 2020
Enerji Dönüşümü, Undergraduate, 2019 - 2020
Akışkanlar Mekaniği II, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Laboratuvar III, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Laboratuvar I, Undergraduate, 2018 - 2019, 2017 - 2018, 2014 - 2015
Akışkanlar Mekaniği I, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Lisans Tezi I, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Lisans Tezi II, Undergraduate, 2016 - 2017, 2013 - 2014, 2012 - 2013, 2011 - 2012
Rüzgar Enerjisi, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013
Laboratuvar II, Undergraduate, 2014 - 2015
Rüzgar Enerjisi ve Sistemleri, Postgraduate, 2011 - 2012, 2009 - 2010

Advising Theses

Deda Altan B., Savonius türbinlerinin performans yönünden incelenmesi, Postgraduate, G.GÜLTEKİN(Student), 2022
Deda Altan B., Farklı kanat tiplerinde savonius rüzgar çarkı tasarımı, Postgraduate, Ş.SERT(Student), 2019

Scientific Refereeing

OCEAN ENGINEERING, SCI Journal, August 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING

SCIENCE, SCI Journal, July 2023
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, February 2023
AEJ - ALEXANDRIA ENGINEERING JOURNAL, SCI Journal, January 2023
JOURNAL OF APPLIED FLUID MECHANICS, SCI Journal, August 2022
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, SCI Journal, December 2021
OCEAN ENGINEERING, SCI Journal, October 2021
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART E: JOURNAL OF PROCESS MECHANICAL ENGINEERING, SCI Journal, September 2021
JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, SCI Journal, July 2021
JOURNAL OF FLUIDS ENGINEERING, TRANSACTIONS OF THE ASME, SCI Journal, November 2020
AEJ - ALEXANDRIA ENGINEERING JOURNAL, SCI Journal, July 2020
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART A: JOURNAL OF POWER AND ENERGY, SCI Journal, July 2020
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, April 2020
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, April 2020
WIND AND STRUCTURES, AN INTERNATIONAL JOURNAL, SCI Journal, February 2020
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, SCI Journal, December 2018
JOURNAL OF FLUIDS ENGINEERING, TRANSACTIONS OF THE ASME, SCI Journal, August 2018
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, July 2018
ENERGY CONVERSION AND MANAGEMENT, SCI Journal, February 2018
BUILDING AND ENVIRONMENT, SCI Journal, October 2017
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, SCI Journal, January 2017
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M: JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, SCI Journal, October 2016

Metrics

Publication: 35
Citation (WoS): 474
Citation (Scopus): 602
H-Index (WoS): 6
H-Index (Scopus): 6

Research Areas

Renewable energy, Mechanical Engineering, Energy, Fluid Mechanics, Alternative Energy Resources, Wind power, Engineering and Technology