

Prof. HÜSEYİN ÇAVUŞ

Personal Information

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Education Information

Doctorate, Canakkale Onsekiz Mart University, Fen Bilimleri Ens., Fizik, Turkey 2002 - 2007

Postgraduate, Canakkale Onsekiz Mart University, Fen Bilimleri Ens., Fizik, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Fen Edebiyat Fak., Fizik, Turkey 1995 - 1999

Undergraduate, Middle East Technical University, Ydyo, Hazırlık, Turkey 1994 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Güneş Kabuğundaki Konvektif Olayların Manyetohidrodinamik (MHD) Yaklaşımına Modellenmesi , Canakkale Onsekiz Mart University, Fizik, 2007

Postgraduate, Plazmada Gravitasyonel Kararsızlıklar , Canakkale Onsekiz Mart University, Fen Bilimleri Ens., Fizik, 2002

Research Areas

Physics, Astronomy and Astrophysics, Sun and Solar Systems, Physics of Plasmas

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2018 - Continues

Associate Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2012 - 2018

Assistant Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2009 - 2012

Research Assistant PhD, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2007 - 2009

Research Assistant, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2000 - 2007

Academic and Administrative Experience

Head of Department, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2021 - Continues

Head of Department, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2019 - 2021

Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, 2010 - 2019

Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2013 - 2015

Advising Theses

- Çavuş H., Koronal Kütle Atımlarından Sonra Gezegenler Arası Ortamda Oluşan Şok Dalgalarının WIND Uydusu Verileriyle İncelenmesi, Postgraduate, G.Çağlar(Student), 2021
- Çavuş H., The investigation of the relationship between the physical parameters of sunspots and solar coronal mass ejections using artificial intelligence algorithms , Postgraduate, A.Ur(Student), 2021
- Çavuş H., Koronal kütle atımlarından sonra gezegenler arası ortamda oluşan şok dalgalarının ace uydusu verileriyle incelenmesi, Postgraduate, G.ARAZ(Student), 2021
- Çavuş H., Manyetohidrodinamik Rayleigh-Taylor kararsızlığı ve Güneş için incelenmesi, Postgraduate, F.KARA(Student), 2018
- Çavuş H., Hidrodinamik Şok Dalgalarında Viskozite Etkisinin Araştırılması ve Sonuçların Koronal Kütle Atımlarından Sonra Oluşan Şok Dalgalarına Uygulanması, Doctorate, A.Kurt(Student), 2016
- Çavuş H., Güneş Rüzgarlarının İki Boyutlu Manyetohidrodinamik Modellenmesi, Postgraduate, N.İLBİKÇİ(Student), 2013
- Çavuş H., Manyetohidrodinamik Kelvin-Helmholtz Kararsızlığı ve Koronal Kütle Atımları için İncelenmesi, Postgraduate, D.KAZKAPAN(Student), 2012
- Çavuş H., Plazma fiziğinde manyetohidrodinamik şok dalgaları ve eğik yoğunluk arayüzlerinde kırılmaları, Postgraduate, B.Emre(Student), 2011

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Can Solar Cycle 25 Be a New Dalton Minimum?**
Coban G. C. , Raheem A., ÇAVUŞ H., Asghari-Targhi M.
SOLAR PHYSICS, vol.296, no.11, 2021 (Journal Indexed in SCI)
- II. **An investigation of the causal relationship between sunspot groups and coronal mass ejections by determining source active regions**
Raheem A., ÇAVUŞ H., Coban G. C. , KINACI A. C. , Wang H., Wang J. T. L.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.506, no.2, pp.1916-1926, 2021 (Journal Indexed in SCI)
- III. **Correlation between sunspots and interplanetary shocks measured by ACE during 1998-2014 and some estimations for the 22nd solar cycle and the years between 2015 and 2018 with artificial neural network using the Cavus 2013 model**
ÇAVUŞ H., Araz G., Coban G. C. , Raheem A., Karafistan A. I.
ADVANCES IN SPACE RESEARCH, vol.65, no.3, pp.1035-1047, 2020 (Journal Indexed in SCI)
- IV. **A viscous magnetohydrodynamic Kelvin-Helmholtz instability in the interface of two fluid layer: Part II. An application to the atmosphere of the Sun**
ÇAVUŞ H., Hoshoudy G. A.
ASTROPHYSICS AND SPACE SCIENCE, vol.364, no.7, 2019 (Journal Indexed in SCI)
- V. **A viscous magnetohydrodynamic Kelvin-Helmholtz instability in the interface of two fluid layers: Part I. Basic mechanism**
Hoshoudy G. A. , ÇAVUŞ H., Mahdy A.
ASTROPHYSICS AND SPACE SCIENCE, vol.364, no.5, 2019 (Journal Indexed in SCI)
- VI. **Kelvin-Helmholtz instability of two finite-thickness fluid layers with continuous density and velocity profiles**
Hoshoudy G. A. , ÇAVUŞ H.
JOURNAL OF ASTROPHYSICS AND ASTRONOMY, vol.39, no.3, 2018 (Journal Indexed in SCI)
- VII. **Effect of Viscosity on Shock Waves Observed After Two Different Coronal Mass Ejection Activities CME20/11/2003 and CME11/04/2010**
Cavus H., Zeybek G.
ASTROPHYSICS, vol.60, no.1, pp.100-110, 2017 (Journal Indexed in SCI)
- VIII. **Treatment of Viscosity in the Shock Waves Observed After Two Consecutive Coronal Mass Ejection**

Activities CME08/03/2012 and CME15/03/2012

ÇAVUŞ H.

EARTH MOON AND PLANETS, vol.118, pp.91-101, 2016 (Journal Indexed in SCI)

- IX. **On the variations of some physical quantities above the sunspot bands near the equatorial plane**
Cavus H., Ilbikci N.
ASTROPHYSICAL BULLETIN, vol.71, no.2, pp.241-248, 2016 (Journal Indexed in SCI)
- X. **Effects of viscosity on the behavior of entropy change in the shock wave that occurred after the December 13, 2006 coronal mass ejection**
Cavus H., Kurt A.
ASTROPHYSICAL BULLETIN, vol.70, no.2, pp.220-225, 2015 (Journal Indexed in SCI)
- XI. **On the viscosity effects in the shock wave observed in the solar wind after the December 13, 2006 coronal mass ejection**
Cavus H.
ASTROPHYSICAL BULLETIN, vol.70, no.1, pp.117-122, 2015 (Journal Indexed in SCI)
- XII. **Magnetic Kelvin-Helmholtz instability in the solar atmosphere**
ÇAVUŞ H., KAZKAPAN D.
NEW ASTRONOMY, vol.25, pp.89-94, 2013 (Journal Indexed in SCI)
- XIII. **On the Effects of Viscosity on the Shock Waves for a Hydrodynamical Case-Part I: Basic Mechanism**
Cavus H.
ADVANCES IN ASTRONOMY, vol.2013, 2013 (Journal Indexed in SCI)
- XIV. **On the effect of magnetic field on the low-l solar p-mode oscillations**
ÇAVUŞ H., Karafistan A. I.
NEW ASTRONOMY, vol.15, no.6, pp.569-574, 2010 (Journal Indexed in SCI)
- XV. **On the Modelling of Rotational Effects in the Lower Convective Region of the Sun**
ÇAVUŞ H., Karafistan A. I.
BRAZILIAN JOURNAL OF PHYSICS, vol.40, no.2, pp.160-165, 2010 (Journal Indexed in SCI)
- XVI. **A magnetohydrodynamic model applied to the lower convective region in the Sun including the radial components of magnetic field and flow**
Cavus H.
NEW ASTRONOMY, vol.14, no.8, pp.700-707, 2009 (Journal Indexed in SCI)
- XVII. **Modelling the magnetic field and differential rotation effects for the vicinity of the base of convective zone in the Sun**
Cavus H.
NEW ASTRONOMY, vol.14, no.4, pp.349-355, 2009 (Journal Indexed in SCI)
- XVIII. **A magnetohydrodynamic model applied to the lower convective region in the Sun**
Cavus H., KARAFİSTAN A. I.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.380, no.1, pp.142-148, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Shock Wave Interactions with Viscosity Observed after the Coronal Mass Ejection Activities Occurred on December 18, 1999 and April 4, 2001**
ÇAVUŞ H., KARAFİSTAN A.
Asian Journal Of Mathematics, vol.1, no.4, pp.1-11, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **TÜRKİYE ÜNİVERSİTELERİNDE (2000 YILINDAN ÖNCE KURULAN) AKADEMİK UNVANLARIN**

ÜNİVERSİTE SIRALAMALARINA ETKİSİ

ÇAVUŞ C. Z. , ÇAVUŞ H.

II. International Congress of New Approaches and Trends in Social Sciences, Kocaeli, Turkey, 8 - 09 November 2018, pp.94-112

II. TÜRKİYE'DE 2000 YILINDAN SONRA KURULAN ÜNİVERSİTELER İÇİN AKADEMİK UNVANLARIN ÜNİVERSİTE SIRALAMALARINA ETKİSİ

ÇAVUŞ H., ÇAVUŞ C. Z.

II. International Congress of New Approaches and Trends in Social Sciences, Kocaeli, Turkey, 8 - 09 November 2018, pp.303-317

III. Koronal Kütle Atımlarından Oluşan Şok Dalgalarının İncelenmesi

ÇAVUŞ H.

Ulusal Astronomi Kongresi 2018, Turkey, 2 - 07 September 2018

IV. Güneş Atmosferinde Ekvator Düzlemi Civarında Bazı Fiziksel Parametrelerin Değişimi

ÇAVUŞ H.

Ulusal Astronomi Kongresi 2016, Erzurum, Turkey, 1 - 06 September 2016

V. 2010-2017 Yılları Arasında Temel Bilim Bölümlerinin Kontenjanları Üzerine Bir Değerlendirme

ÇAVUŞ H.

International Conference on Quality in Higher Education 2017, 7 - 08 December 2017

VI. TÜRKİYE'DEKİ ÜNİVERSİTELERİN RESEARCHGATE GÖRÜNÜRLÜK ANALİZİ (2000 YILINDAN ÖNCE KURULAN)

ÇAVUŞ C. Z. , ÇAVUŞ H.

ICQH 2017 International Conference on Quality in Higher Education, Sakarya, Turkey, 7 - 08 December 2017

VII. TÜRKİYE'DEKİ ÜNİVERSİTELERİN RESEARCHGATE AÇISINDAN GÖRÜNÜRLÜĞÜ (2000 YILINDAN SONRA KURULAN)

ÇAVUŞ H., ÇAVUŞ C. Z.

ICQH 2017 International Conference on Quality in Higher Education, Sakarya, Turkey, 7 - 08 December 2017

VIII. 13/12/2006 Koronal Kütle Atımı (CME) Sonrası Meydana Gelen Şok Dalgası İçin Viskozite Etkisi Üzerine Araştırmalar

KURT A., ÇAVUŞ H.

Adım Fizik Günleri 6, Balıkesir, Turkey, 19 - 21 July 2017

IX. SON YILLARDA TEMEL BİLİMLERDE OLUŞAN ÜNİVERSİTE SINAVLARINDAKİ KONTENJAN PROBLEMİ VE ÇÖZÜM ÖNERİLERİ

ÇAVUŞ H., DEMİRCAN O.

International Conference on Quality in Higher Education, 24 - 25 November 2016

X. CUMHURİYETİN 100 YILINDA TEMEL BİLİM EĞİTİMİ NASIL OLMALI SOUNLAR VE ÇÖZÜMLER

DEMİRCAN O., ÇAVUŞ H.

ULUSLARARASI ÇAĞDAŞ EĞİTİM ARAŞTIRMALARI KONGRESİ, 29 - 02 November 2016

XI. Plazma Fiziğinde Manyetohidrodinamik Şok Dalgalarının Yoğunluk Arayüzlerinde Kırılmaları

ÇAVUŞ H., ÇİĞRIKÇI E.

Turkish Physical Society 28th International Physics Congress (September 6-9, 2011), 09 September 2011, vol.1

XII. Some MHD solutions for the bottom of the solar convective layer

ÇAVUŞ H., Karafistan A. I.

Workshop on Solar and Stellar Physics through Eclipses, Antalya, Turkey, 27 - 29 March 2006, vol.370, pp.74-75

XIII. Nonlinear magneto-hydrodynamical modeling of solar envelope

ÇAVUŞ H., KARAFİSTAN A. I.

7th International Conference of the Hellenic-Astronomical-Society, Lixourion, Greece, 8 - 11 September 2006, vol.848, pp.207-208

Citations

Total Citations (WOS):45

h-index (WOS):4

Non Academic Experience

Non-profit Organisation, Türk Fizik Derneđi, Türk Fizik Derneđi

Non-profit Organisation, Türk Astronomi Derneđi, Türk Astronomi Derneđi