

## Prof. SACİT ÖZDEMİR



### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAP-5479-2020

Yoksis Researcher ID: 24561

### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (Dr), Turkey 1993 - 1999

Postgraduate, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, Turkey 1991 - 1993

Undergraduate, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, Turkey 1985 - 1989

### Dissertations

Doctorate, Photometric and Spectroscopic Properties of X-ray Binary Systems, Ankara University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (Dr), 1999

Postgraduate, A Study of the ultraviolet spectra of Ae spectral type herbig-haro star Hr 5999, Ankara University, Fen Bilimleri Enstitüsü, 1993

### Research Areas

Astronomy and Astrophysics: Instrumentation Techniques and Observations, Star Systems, Interstellar Medium, The Galaxy, Galactic and Extragalactic Objets and Systems, Cosmology, Stars

### Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, 2010 - Continues

Professor, Kirşehir Ahi Evran University, Faculty Of Arts And Sciences, 2008 - 2010

Associate Professor, Gazi University, Fen Fakültesi, Fizik Bölümü, 2003 - 2007

Associate Professor, Canakkale Onsekiz Mart University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2003

Assistant Professor, Canakkale Onsekiz Mart University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2000 - 2002

Lecturer PhD, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, 2000 - 2000

Research Assistant, Ankara University, Fen Bilimleri Enstitüsü, astronomi ve uzay bilimleri, 1990 - 2000

Research Assistant, Universiteit van Amsterdam, 1997 - 1998

### Academic and Administrative Experience

Director, TÜBİTAK, TÜBİTAK National Observatory, TÜBİTAK Ulusal Gözlemevi, 2018 - 2022

Board Member, TÜBİTAK, TÜBİTAK National Observatory, TÜBİTAK Ulusal Gözlemevi, 2016 - 2022  
Advisor, Republic of Turkey, Presidency of Religious Affairs, Advisor of Presidency of Religious Affairs, 2013 - 2018  
Head of Department, Ankara University, Fen Fakültesi, Astronomi ve Uzay Bilimleri Bölümü, 2012 - 2012  
Academic Board Member, TÜBİTAK, TÜBİTAK National Observatory, TÜBİTAK Ulusal Gözlemevi, 2007 - 2011  
Fakülte Yönetim Kurulu Üyesi, Kırşehir Ahi Evran University, Faculty Of Arts And Sciences, 2009 - 2010  
Member of the Senate, Kırşehir Ahi Evran University, Faculty Of Arts And Sciences, 2009 - 2010  
Head of Department, Kırşehir Ahi Evran University, Faculty Of Arts And Sciences, 2006 - 2010  
Head of Department, Gazi University, -, Kırşehir Fen Edebiyat Fakültesi, 2004 - 2006  
Deputy Director of the Center, Canakkale Onsekiz Mart University, -----, Çanakkale Astrofizik  
Araştırma ve Uygulama Merkezi (ÇAAM), 2003 - 2003

## Courses

High Energy Astrophysics, Postgraduate, 2017 - 2018  
Stellar Evolution and Interiors, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Celestial Mechanics, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
High Energy Astrophysics, Undergraduate, 2013 - 2014, 2012 - 2013  
X-ray Astronomy, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012  
Space Researches, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
Theoretical Mechanics, Undergraduate, 2007 - 2008

## Advising Theses

Özdemir S., Light curve analysis of W UMa type eclipsing binary systems selected from the Kepler archive, Postgraduate, H.SARAÇ(Student), 2019  
Özdemir S., Some observational relations in eclipsing binary star systems: Absolute parameters in distance estimation, Postgraduate, D.ÖZTÜRK(Student), 2017  
Özdemir S., An observational study on horizontal brightness variation of dusk and dawn twilights, Postgraduate, O.OKUYAN(Student), 2016  
Özdemir S., Determination of W UMa type variable stars in the ROTSE-IIId database using the Fourier filtering method, Postgraduate, D.ÇOKER(Student), 2015  
Özdemir S., Studying the dynamics of some rich galaxy clusters based on X-ray observations, Postgraduate, E.ÖZEL(Student), 2015  
Özdemir S., Detection and verification of orbits of satellites and space debris with ground based optical systems, Postgraduate, S.AYDIN(Student), 2015  
Özdemir S., Shape and rotational properties of asteroids from photometric data, Postgraduate, U.DEMİRHAN(Student), 2014  
Özdemir S., Dynamic power spectra on the basis of wavelet transform, Postgraduate, M.EMRE(Student), 2014  
Özdemir S., Seeing measurements of Ankara University observatory, Postgraduate, C.YILDIRIM(Student), 2012  
Özdemir S., Period analysis of the early-type eclipsing binary system IU Aurigae, Postgraduate, M.TÜYSÜZ(Student), 2004  
Özdemir S., Photometric analysis and period analysis of the early-type eclipsing binary system TT Aurigae, Postgraduate, D.BAŞARAN(Student), 2004

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

1. **Physical and geometrical properties of an Algol type eclipsing binary with a  $\delta$  Scuti pulsator: HD 221072**  
GÜROL B., ÖZDEMİR S., Gürsoytrak-Mutlay S. H., Terzioğlu Z.

New Astronomy, vol.105, 2024 (SCI-Expanded)

- II. **The effect of baseline on the uncertainties of range determination performed by two-site astrometric observations: A sample case for the triangulation method: TURKSAT 3A and TURKSAT 4A**  
Gökay H. G., Özdemir S., Bağiran N., Aydın S.  
ASTRONOMY AND COMPUTING, vol.46, no.100787, pp.1-10, 2024 (SCI-Expanded)
- III. **Revised Orbital Parameters of Beaming Eclipsing Binary System HV Cnc from Kepler Photometry**  
Gokay G., ÖZDEMİR S., GÜROL B.  
NEW ASTRONOMY, vol.75, 2020 (SCI-Expanded)
- IV. **Precipitable water vapor (PWV) estimations from the site of the Eastern Anatolia Observatory (DAG), a new astronomical observatory in Turkey**  
ÖZDEMİR S., YEŞİLYAPRAK C., AKTUĞ B., Ozturk D., Coker D., Balbay R.  
EXPERIMENTAL ASTRONOMY, vol.46, no.2, pp.323-336, 2018 (SCI-Expanded)
- V. **A study on W ursae majoris-type systems recognised by the ROTSE-IIId experiment**  
Çoker D., ÖZDEMİR S., YEŞİLYAPRAK C., YERLİ S. K., AKSAKER N., Güçsav B.  
Publications of the Astronomical Society of Australia, vol.30, no.1, 2013 (SCI-Expanded)
- VI. **A study on the long term periodicities among the X-ray binaries: Two new superorbital periods**  
Ozdemir S.  
ASTRONOMISCHE NACHRICHTEN, vol.331, no.3, pp.300-303, 2010 (SCI-Expanded)
- VII. **A new photometric study of CW Cephei and its apsidal motion**  
Erdem A., Soyduğan E., Soyduğan F., Ozdemir S., Cicek C., Bulut I., Demircan O., Budding E.  
ASTRONOMISCHE NACHRICHTEN, vol.325, no.4, pp.336-342, 2004 (SCI-Expanded)
- VIII. **Photometric solution of the eclipsing binary system EF Bootis**  
Ozdemir S., Demircan O., Cicek C., Erdem A.  
ASTRONOMISCHE NACHRICHTEN, vol.325, no.4, pp.332-335, 2004 (SCI-Expanded)
- IX. **Refinement of third body parameters and new photometric results for the early-type multiple system IU Aurigae**  
Ozdemir S., Mayer P., Drechsel H., Demircan O., AK H.  
ASTRONOMY & ASTROPHYSICS, vol.403, no.2, pp.675-681, 2003 (SCI-Expanded)
- X. **A photometric study of the recently discovered eclipsing binary V899 Herculis**  
Ozdemir S., Demircan O., Erdem A., Cicek C., Bulut I., Soyduğan E., Soyduğan F.  
ASTRONOMY & ASTROPHYSICS, vol.387, no.1, pp.240-243, 2002 (SCI-Expanded)
- XI. **UBV photometry of the massive eclipsing binary TT Aur**  
Ozdemir S., AK H., Tanriver M., Gulsecen H., Gulsecen S., SAYGAÇ A. T., Budding E., Demircan O.  
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF AUSTRALIA, vol.18, no.2, pp.151-157, 2001 (SCI-Expanded)
- XII. **A photometric study of BO Canum Venaticorum**  
Albayrak B., Müyesseroğlu Z., Özdemir S.  
ASTRONOMISCHE NACHRICHTEN, vol.322, no.2, pp.125-135, 2001 (SCI-Expanded)
- XIII. **A preliminary version of a catalog of high-low-mass X-ray binaries**  
Guseinov O., Saygac A., Allahverdiev A., ÇALIŞKAN H., Ozdemir S., YERLİ S. K., Ankaş A.  
ASTRONOMY LETTERS-A JOURNAL OF ASTRONOMY AND SPACE ASTROPHYSICS, vol.26, no.11, pp.725-729, 2000 (SCI-Expanded)
- XIV. **The early type contact binary system V 382 Cygni**  
Degirmenci O., Sezer C., Demircan O., Erdem A., Ozdemir S., AK H., Albayrak B.  
ASTRONOMY & ASTROPHYSICS SUPPLEMENT SERIES, vol.134, no.2, pp.327-331, 1999 (SCI-Expanded)
- XV. **A model of the early type binary system BF Aurigae**  
Demircan O., Ozdemir S., Albayrak B., AK H., Tanriver M., Degirmenci O., Erdem A., Sezer C.  
REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, vol.33, no.2, pp.131-135, 1997 (SCI-Expanded)
- XVI. **UBV photometry of the WR binary CQ Cephei**  
Demircan O., AK H., Ozdemir S., Tanriver M., Albayrak B.  
ASTRONOMISCHE NACHRICHTEN, vol.318, no.5, pp.267-272, 1997 (SCI-Expanded)

- XVII. **A detached binary system V505 Persei**  
Demircan O., Ozdemir S., Tanriver M.  
ASTROPHYSICS AND SPACE SCIENCE, vol.250, no.2, pp.327-335, 1997 (SCI-Expanded)
- XVIII. **An analysis of the light curves of the early-type binary BF Aurigae**  
Djurasevic G., Demircan O., Ozdemir S., Tanriver M., Muyesseroglu Z., AK H., Albayrak B.  
ASTROPHYSICS AND SPACE SCIENCE, vol.253, no.2, pp.265-274, 1997 (SCI-Expanded)
- XIX. **The initial-final mass relation for white dwarfs and their progenitors: The number-mass distribution of white dwarfs**  
Aydin C., ÖZDEMİR S., Guseinov O. H., Özel M. E., Tagieva S.  
Turkish Journal of Physics, vol.20, no.10, pp.1149-1159, 1996 (SCI-Expanded)
- XX. **On the Mass Ratio Distribution of OB-type Binaries**  
Demircan O., Özdemir S., Allahverdiev A. O., Guseinov O. H.  
the observatory, vol.115, pp.202-205, 1995 (SSCI)

### Articles Published in Other Journals

- I. **Cyclic Magnetic Activity in KIC7542091 Eclipsing Binary System**  
Terzioğlu Z., Gürsoytrak Mutlay S. H., Özdemir S., Gürol B.  
Turkish Journal of Astronomy and Astrophysics, vol.4, no.1, pp.1-4, 2023 (Peer-Reviewed Journal)
- II. **GRB 190114C: RTT150 optical observations**  
Bikmaev I., Özdemir S., Göğüş E.  
GCN CIRCULAR, vol.23766, no.1, pp.1, 2019 (Non Peer-Reviewed Journal)
- III. **AN OBSERVATIONAL STUDY ON THE LIMITS OF DAWN AND FAJR**  
Özdemir S., Aşikkaya I.  
Diyanet İlmî Dergi, vol.52, no.2, pp.31-42, 2016 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **Astronomi ve Astrofizik**  
ÖZDEMİR S., GÜROL B., DEMİRCAN O.  
Asil Yayın Dağıtım Şirketi, Ankara, 2005

### Refereed Congress / Symposium Publications in Proceedings

- I. **HD 221072: DELTA SCUTI BİLEŞENLİ ALGOL TÜRÜ SİSTEMİN FİZİKSEL VE GEOMETRİK ÖZELLİKLERİ**  
GÜROL B., ÖZDEMİR S., GÜRSOYTRAK S. H., Terzioğlu Z.  
Zonklayan Bileşenli Çift Yıldızlar Çalıştayı, Çanakkale, Turkey, 27 February 2023, pp.1-19
- II. **PRECIPITABLE WATER VAPOR ESTIMATIONS OF ERZURUM PROVINCE BASED ON GPS DATA**  
ÖZDEMİR S., balbay r., AKTUĞ B., YEŞİLYAPRAK C., öztürk d., çoker d., GÜNEY Y., yüzlükoğlu f., ShameoniNiaei m., doğan e.  
ATMOS 2017, 1 - 04 November 2017
- III. **The Starspot Activities of Active Binary XY UMa from 2004 to 2005**  
Gu S., Özdemir S., Min Kim K.  
The 16th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Washington, United States Of America, 12 August 2010, vol.448, pp.1139-1143
- IV. **RXTE OBSERVATIONS of CYG X-3**  
Özdemir S., Mendez M., Van Der Klis M., White D. N. E.  
The Extreme sky: Sampling the Universe above 10 keV (extremesky2009) , Lecce, Italy, 13 - 17 October 2009,

pp.68

- V. **The Wavelength Dependence of the Reflection Effect in the Ellipsoidal Light Curves of Cyg X-1**  
Özdemir S., Demircan O.  
New Directions for Close Binary Studies: The Royal Road to the Stars., Çanakkale, Turkey, 10 - 14 June 2002,  
pp.234-240
- VI. **V and R Observations of Two Carbon Stars UX Dra and RY Dra**  
AK H., ALBAYRAK B., Aslan Z., Müyesseroğlu Z., ÖZDEMİR S., YÜCE K., DEMİRCAN O.  
Symposium, Antalya, Turkey, 27 - 31 May 1996, vol.177, pp.515
- VII. **TT Aur Yıldızındaki Işınım Basıncı Etkisi**  
YÜCE K., ÖZDEMİR S., AK H., DEMİRCAN O.  
XI. Ulusal Astronomi Kongresi, Elazığ, Turkey, 07 October 1999
- VIII. **Karbon Yıldızları, UX Dra ve RY Dra'nın V ve R Gözlemleri**  
ÖZDEMİR S., ALBAYRAK B., ASLAN Z., DEMİRCAN O., AK H., Müyesseroğlu Z., YÜCE K.  
X. Ulusal Astronomi Kongresi, İstanbul, Turkey, 2 - 06 September 1996
- IX. **V1357 Cyg'nin UBV Işık Eğrisi**  
ÖZDEMİR S., YÜCE K., DEMİRCAN O., Engin S., ERCAN E. N.  
X. Ulusal Astronomi Kongresi, İstanbul, Turkey, 02 September 1996, pp.511

## Supported Projects

- Özdemir S., TÜBİTAK Project, Investigation of Precipitable Water Vapor (PWV) Amount for Eastern Anatolia Observatory (DAG) Using Global Positioning System (GPS), 2016 - 2018
- Özdemir S., Aşikkaya I., Project Supported by Other Official Institutions, Observational Study of Horizon Illumination (Dawn and Fajr) Times, 2011 - 2016
- Özdemir S., Project Supported by Other Official Institutions, Photometric Observations of Stellar Objects During Day-time, 2010 - 2013
- Özdemir S., TÜBİTAK Project, Cacabey Astronomy Camp, 2009 - 2009
- Özdemir S., Project Supported by Other Official Institutions, An Observational Study on Binary Star Systems with a Telescope, 2002 - 2005
- Özdemir S., TÜBİTAK Project, Photometric Study of Some Eccentric Orbital Eclipsing Binary Stars, 2002 - 2005

## Memberships / Tasks in Scientific Organizations

Turkish Space Agency, Board Member, 2019 - 2022, Turkey

## Scientific Refereeing

- Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), National Scientific Refreed Journal, August 2022
- ASTRONOMICAL JOURNAL, SCI Journal, February 2016

## Metrics

- Publication: 35  
Citation (WoS): 89  
Citation (Scopus): 80  
H-Index (WoS): 6  
H-Index (Scopus): 5

## **Congress and Symposium Activities**

Uzay Bilimleri Sempozyumu, Moderator, Ankara, Turkey, 2022