

Assoc. Prof. Murat HÜDAVERDİ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-1636-2020

ScopusID: 6504636168

Yoksis Researcher ID: 191578

Education Information

Post Doctorate, Bogazici University, Faculty of Art & Science, Physics Department, Turkey 2007 - 2008

Post Doctorate, Nagoya University, Ecotopia Science Institute, Natural Sciences, Japan 2006 - 2007

Doctorate, Nagoya University, Faculty of Science, Department of Physics, Japan 2003 - 2006

Postgraduate, Nagoya University, Faculty of Science, Physics Department, Japan 2000 - 2003

Undergraduate, Bogazici University, Faculty of Art & Science, Physics, Turkey 1993 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Aeronautical and Space Engineering, Physics, Astronomy and Astrophysics, Star Systems, Interstellar Medium, The Galaxy, Galactic and Extragalactic Objects and Systems, Cosmology, Space Engineering, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Fen Edebiyat Fakültesi, Fizik, 2018 - Continues

Assistant Professor, Yıldız Technical University, Fen Edebiyat Fakültesi, Fizik, 2012 - 2018

Advising Theses

HÜDAVERDİ M., An X-ray Study of Shell-Type Galactic Supernova Remnants, Postgraduate, N.Cesur(Student), Continues

HÜDAVERDİ M., Karanlık madde adaylarının araştırılması, Doctorate, H.SERT(Student), Continues

HÜDAVERDİ M., Galaksi kümeleri kütle dağılımları, Postgraduate, M.Kıyami(Student), 2016

HÜDAVERDİ M., Çekimsel kümeleşmenin galaksi evrimine etkileri, Postgraduate, T.ÇAĞLAR(Student), 2016

HÜDAVERDİ M., Galaksi kümeleri X-ray analizleri, Postgraduate, S.TAŞKIN(Student), 2016

Jury Memberships

Post Graduate, GALAKSI KUMELERİNİN X-ISIN GOZLEMLERİ, Marmara Üniversitesi, June, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **INVESTIGATING THE VIOLATION OF CHARGE-PARITY SYMMETRY THROUGH TOP-QUARK CHROMOELECTRIC DIPOLE MOMENTS BY USING MACHINE LEARNING TECHNIQUES**
İşıldak B., Hüdaverdi M., İlgin F., Hayreter A., Salva S., Simsek E., Guyer S.
Acta Physica Polonica B, vol.54, no.5, 2023 (SCI-Expanded)
- II. **Chandra observation of a cold front in Abell 2554**
Erdim M. K., Hüdaverdi M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.488, no.2, pp.2917-2924, 2019 (SCI-Expanded)
- III. **Dynamical history of a binary cluster: Abell 3653**
Caglar T., HÜDAVERDİ M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.472, no.3, pp.2633-2642, 2017 (SCI-Expanded)
- IV. **XMM-Newton view of X-ray overdensities from nearby galaxy clusters: the environmental dependencies**
Caglar T., HÜDAVERDİ M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.471, no.4, pp.4990-5007, 2017 (SCI-Expanded)
- V. **Suzaku observation of the Galactic supernova remnant CTB 37A (G348.5+0.1)**
SEZER A., GÖK F., HÜDAVERDİ M., ERCAN E. N.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.417, no.2, pp.1387-1391, 2011 (SCI-Expanded)
- VI. **Suzaku observations of ejecta-dominated Galactic supernova remnant G346.6-0.2**
Sezer A., GÖK F., Hudaverdi M., Kimura M., Ercan E. N.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.415, no.1, pp.301-305, 2011 (SCI-Expanded)
- VII. **1E 1207.4-5209-LIKE RADIO-QUIET NEUTRON STARS**
Ankay A. M., HÜDAVERDİ M., ERCAN E. N., Ankay A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.18, no.13, pp.1991-2006, 2009 (SCI-Expanded)
- VIII. **Overdensity of X-ray sources in the field of two nearby clusters of galaxies: XMM-Newton view of A 194 and A 1060**
Hudaverdi M., Kunieda H., Tanaka T., Haba Y., Furuzawa A., TAWARA Y., ERCAN E. N.
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN, vol.58, no.6, pp.931-943, 2006 (SCI-Expanded)
- IX. **Non-uniform temperature distribution in the galaxy clusters 2A 0335+096 and Abell 496 observed by XMM-Newton**
Tanaka T., Kunieda H., Hudaverdi M., Furuzawa A., Tawara Y.
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN, vol.58, no.4, pp.703-718, 2006 (SCI-Expanded)
- X. **Study of the structure of Abell 3571: An XMM-Newton view**
Hudaverdi M., YAMASHITA K., FURUZAWA A.
CLUSTERS OF GALAXIES: NEW INSIGHTS FROM XMM-NEWTON, CHANDRA AND INTEGRAL, vol.36, no.4, pp.643-649, 2005 (SCI-Expanded)
- XI. **ASCA and XMM-Newton observations of A2029**
Miyoshi S., Tanaka N., Yoshimura M., Yamashita K., Furuzawa A., Futamura T., Hudaverdi M.
CLUSTERS OF GALAXIES: NEW INSIGHTS FROM XMM-NEWTON, CHANDRA AND INTEGRAL, vol.36, no.4, pp.752-756, 2005 (SCI-Expanded)
- XII. **Characterization of the supermirror hard-x-ray telescope for the InFOC mu S balloon experiment**
Okajima T., Tamura K., Ogasaka Y., Haga K., Takahashi S., Ichimaru S., Kito H., Fukuda S., Goto A., Nomoto K., et al.

Articles Published in Other Journals

- I. **Thermodynamic Properties of Cavities in Hot X-ray Plasma: A2556**
ERDIM M. K., HÜDAVERDİ M.
Tamap Journal of Physical Sciences, vol.1, 2018 (Peer-Reviewed Journal)
- II. **The Chemical Abundances and the Metal Enrichment in the Universe**
ERCAN E. N., EZER C., ÇAMLIBEL A. K., HÜDAVERDİ M.
Tamap Journal of Physical Sciences, vol.2018, 2018 (Peer-Reviewed Journal)
- III. **The effects of X-ray background on the X-ray emission from the Galactic supernova remnants**
NERGİS C., SEZER A., HÜDAVERDİ M.
TURKISH JOURNAL OF PHYSICS, vol.42, pp.573-586, 2018 (Scopus)
- IV. **Spectral Properties of the Galactic Supernova Remnant Vela Jr. (G266.2-1.2) Using Chandra**
NERGİS C., SEZER A., HÜDAVERDİ M.
TURKISH JOURNAL OF PHYSICS, vol.42, pp.166-174, 2018 (Scopus)
- V. **Mapping heavy elements in the supernova remnant G290.1-0.8**
HÜDAVERDİ M.
TURKISH JOURNAL OF PHYSICS, vol.42, no.4, pp.415-424, 2018 (ESCI)
- VI. **Characterizing decaying dark matter: X-ray emission from sterile neutrinos**
HÜDAVERDİ M.
TURKISH JOURNAL OF PHYSICS, vol.42, pp.89-96, 2018 (Scopus)
- VII. **High Energy Studies on the Non-Thermal Emissions from Cassiopeia A & Tycho**
ERGIN T., ERCAN E. N., HÜDAVERDİ M.
International Journal of Astronomy and Astrophysics, vol.3, no.1, pp.34-48, 2013 (Non Peer-Reviewed Journal)
- VIII. **High Energy Studies on the Non-Thermal Emissions from Cassiopeia A amp Tycho**
BOZKURT M., ERGİN T., HÜDAVERDİ M., ERCAN E. N.
International Journal of Astronomy and Astrophysics, vol.3, pp.34-48, 2013 (Peer-Reviewed Journal)
- IX. **Multi-Band Analysis Of Abell 2255**
HÜDAVERDİ M.
Balkan Physics Letters, vol.19, no.19, pp.99-119, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Evrenin Kökeni ve Yapısı**
HÜDAVERDİ M.
in: Bence Bilim, Oğuzhan AYDEMİR, Editor, Güven Mücellit, İstanbul, pp.13-22, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Space Radiation Estimation for The Turkish Lunar Mission**
Bektasoglu B., HÜDAVERDİ M., DEMİRKÖZ M. B.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- II. **Asymmetric uncertainties in measurements: SOAD a Python package based on Monte Carlo Simulations**
Erdim M. K., Hüdaverdi M.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019,

vol.2178, pp.300231-300234

- III. **DECAYING DARK MATTER FROM X-RAY OBSERVATIONS**
HÜDAVERDİ M.
8th-IWOE, 1 - 02 March 2018
- IV. **An X-ray study of the well-known galactic shell-type supernova remnants**
Nergis C., SEZER A., HÜDAVERDİ M.
33nd International Physics Congress of the Turkish Physical Society (TPS-33), Bodrum, Turkey, 6 - 10 September 2017, vol.1935, pp.300061-300064
- V. **Dynamical Mass nad Gas-Mass Fraction Estimations of Nearby Galaxy Clusters**
ÜNVER O., HÜDAVERDİ M.
33nd International Physics Congress of the Turkish Physical Society (TPS-33), 6 - 10 September 2017
- VI. **Interactions and Inner Dynamics of Non-relaxed Galaxy Clusters**
ERDIM M. K., HÜDAVERDİ M.
33nd International Physics Congress of the Turkish Physical Society (TPS-33), 6 - 10 September 2017
- VII. **Charactererizing Sterile Neutrino Dark Matter from elliptical Galaxies**
HÜDAVERDİ M.
33nd International Physics Congress of the Turkish Physical Society (TPS-33), 6 - 10 September 2017
- VIII. **Steril Notrino X=ray Isimasinda Karanlik Madde Bozunumu Izleri**
HÜDAVERDİ M.
YEFIST 2017, Turkey, 6 - 07 May 2017
- IX. **The correlations of space weather and satellite anomalies RASAT**
Kaplan M., HÜDAVERDİ M.
2013 6th International Conference on Recent Advances in Space Technologies (RAST), Istanbul, Turkey, 12 - 14 June 2013, pp.711-715
- X. **Search for dark matter in clusters of galaxies**
HÜDAVERDİ M., ERCAN E. N., Ezer C., ÖZEREN F. F.
40th COSPAR Scientific Assembly, Moskva, Russia, 2 - 10 August 2014
- XI. **Spectral analysis of metal ejection from NGC3311**
HÜDAVERDİ M., Memis H., TANRIVER M.
2013 6th International Conference on Recent Advances in Space Technologies (RAST), Istanbul, Turkey, Turkey, 12 - 14 June 2013, pp.717-722
- XII. **Space environment and evaluation for RASAT**
HÜDAVERDİ M., İlknur B.
Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, Istanbul, Turkey, Turkey, 9 - 11 June 2011, pp.926-931
- XIII. **Structural formation of the universe: As observed by X-ray satellites**
HÜDAVERDİ M., BOZKURT M., ERCAN E. N., ARIK M., Limboz F.
Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, Istanbul, Turkey, Turkey, 9 - 11 June 2011, pp.570-575
- XIV. **Structural formation of the Universe, as observed by the X-ray satellites**
HÜDAVERDİ M.
5th International Conference on Recent Advances in Space Technology, 01 June 2011, vol.1, pp.570-575
- XV. **Space Environment Forecast and Evaluation for RASAT**
HÜDAVERDİ M.
5th International Conference on Recent Advances in Space Technology, 01 June 2011, vol.1, pp.936-931
- XVI. **STRUCTURAL FORMATION OF THE UNIVERSE: DYNAMICS OF CLUSTERS OF GALAXIES**
HÜDAVERDİ M.
Turkish Physical Society 27th International Physics Conference, İstanbul, Turkey, 14 - 17 September 2010
- XVII. **Suzaku Analysis of A1800**
HÜDAVERDİ M.
Astronomical Society of the Pacific Conf Series, 01 July 2010, vol.424, pp.325-329

- XVIII. **XMM-Newton Analysis of SNR G156.2**
HÜDAVERDİ M.
Astronomical Society of the Pacific Conf Series, 01 July 2010, vol.424, pp.179-182
- XIX. **X-ray Picture of Superclusters of Galaxies**
HÜDAVERDİ M., BOZKURT M., ERCAN E. N.
the 9th International Conference of the Hellenic Astronomical Society, Atina, Greece, 20 - 24 September 2009, vol.424, pp.330-333
- XX. **Structural Analysis of Abell 3560 Cluster of Galaxies**
HÜDAVERDİ M.
Astronomical Society of the Pacific Conf Series,, 01 January 2010, vol.424, pp.321-324
- XXI. **XMM-Newton Analysis of SNR G156.25.7**
HÜDAVERDİ M., Bozkurt M., SEZER A., GÖK F., ERCAN E. N.
9th International Conference of the Hellenic Astronomical Society, Atina, Greece, 20 - 24 September 2009, vol.424, pp.179-182
- XXII. **Dynamics of Faint Clusters of Galaxies**
HÜDAVERDİ M.
Publications of the Astronomical Observatory of Belgrade, 01 September 2009, vol.86, pp.305-308
- XXIII. **Binary Clusters Observed with XMM-Newton X-Ray Observatory**
HÜDAVERDİ M.
Publications of the Astronomical Observatory of Belgrade, 01 September 2009, vol.86, pp.117-123
- XXIV. **X-Ray Analysis of Galactic SNR G27.4**
HÜDAVERDİ M.
Publications of the Astronomical Observatory of Belgrade, 01 September 2009, vol.86, pp.89-94
- XXV. **Structural Analysis of A2034 Clusters of Galaxies**
HÜDAVERDİ M.
Publications of the Astronomical Observatory of Belgrade, 01 September 2009, vol.86, pp.301-304
- XXVI. **Turkish National Observatory (TUG) View of Clusters of Galaxies**
HÜDAVERDİ M.
Publications of the Astronomical Observatory of Belgrade, 01 September 2009, vol.86, pp.125-130
- XXVII. **THE STUDY OF COSMOLOGY WITH X-RAY SATELLITES**
HÜDAVERDİ M.
International Conference on Space Technology, 01 August 2009
- XXVIII. **Reliability Concerns of Radiation Effects on Space Electronics**
HÜDAVERDİ M.
International Conference on Space Technology, 01 August 2009
- XXIX. **PROBING THE COSMIC FILAMENTS BY MEANS OF X RAY OBSERVATIONS**
Bozkurt M., HÜDAVERDİ M., ERCAN E. N.
15th National Conference of Astronomers of Serbia, Belgrade, Serbia And Montenegro, 2 - 05 October 2008
- XXX. **Inhomogeneous Distribution of Iron Abundance in the Cluster of Galaxies 2A 0335**
HÜDAVERDİ M.
JSPS, 01 February 2003, vol.1, pp.99-103
- XXXI. **Analysis of Temperature and Abundance Distribution in Abell 3571: An Ongoing Subcluster Merging?**
HÜDAVERDİ M.
JSPS, 01 February 2003, vol.1, pp.107-111
- XXXII. **Supermirrors for InFOCuS Production Status and Performance**
HÜDAVERDİ M.
Astronomical Society of the Pacific, 01 August 2001, vol.1, pp.578-579

Supported Projects

Hüdaverdi M., Kadıpaşaoğlu A. K., TÜBİTAK Project, 118S098 Mekanik Dolaşım Destek Sistemi Geliştirilmesi, 2019 - 2022

Hüdaverdi M., TÜBİTAK Project, Süpernova Nükleosentezi ile Evrendeki Yapıların Metal Zenginleşme Evrimi, 2018 - 2021

Hüdaverdi M., Hirschi R., TÜBİTAK - AB COST Project, CA16117 - Chemical Elements as Tracers of the Evolution of the Cosmos, 2017 - 2021

Hüdaverdi M., Lazkoz R., TÜBİTAK - AB COST Project, CA15117 - Cosmology and Astrophysics Network for Theoretical Advances and Training Actions (CANTATA), 2016 - 2020

HÜDAVERDİ M., CESUR N., Project Supported by Higher Education Institutions, An X-ray Study of Shell Type Galactic Supernova Remnants, 2018 - 2019

Bölükbaş U., Altok N., Hüdaverdi M., Işık Z., Kavanoz S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Girişimci Hızlandırma Mekanizmalarının Kurulması ve Gelişim Takip Sisteminin Oluşturulması, 2017 - 2018

HÜDAVERDİ M., ÜNVER O., CESUR N., ERDİM M. K., GÜVER T., Project Supported by Higher Education Institutions, Karanlık Maddenin Aydınlik Yüzü, 2015 - 2018

Hüdaverdi M., TÜBİTAK Project, Karanlık Maddenin Aydınlik Yüzü: X-Işın Salınım Çizgilerinde Karanlık-Madde İzlerinin Araştırılması, 2015 - 2017

HÜDAVERDİ M., Project Supported by Higher Education Institutions, Karanlık madde gözlemsel çalışması: yüksek enerji uydu verisi analizleri, 2013 - 2017

HÜDAVERDİ M., Project Supported by Other Official Institutions, GK3, 2010 - 2017

Hüdaverdi M., TÜBİTAK Project, Galaksi Kümeleri İle Karanlık Madde Ve Evrenin Yapısal Analizi, 2013 - 2016

HÜDAVERDİ M., Project Supported by Higher Education Institutions, Çekimsel Kümeleşmenin Galaksi Evrimine Etkileri, 2013 - 2016

HÜDAVERDİ M., Project Supported by Higher Education Institutions, Uzay Havası ve UYDU Anormallikler Arası İlişkiler: BİLSAT ve RASAT, 2013 - 2015

HÜDAVERDİ M., Project Supported by Other Official Institutions, Uydu Fırlatma Aracı Aviyonik Sistemler, 2013 - 2014

Hüdaverdi M., Britzen S., TÜBİTAK - AB COST Project, Black holes in Violent Universe, 2010 - 2014

Hüdaverdi M., TÜBİTAK Project, Superküme Bölgelerindeki Abell Kümelerinin Çekimsel Etkileşimleri ve Kozmik Ağ Modelleriyle Kara-Maddenin Çalışılması, 2010 - 2012

HÜDAVERDİ M., Project Supported by Other Official Institutions, Göktürk2- uydu projesi, 2005 - 2012

Hüdaverdi M., Ercan E. N., TÜBİTAK Project, 108T226 - CFHTLS Derin Uzay Galaksi Kümelerinin Optik ve X-ışını Özellikleri, 2008 - 2011

HÜDAVERDİ M., Project Supported by Other Official Institutions, RASAT UYDUSU-Yerli yapım yer gözlem uydu projesi, 2003 - 2011

HÜDAVERDİ M., TÜBİTAK Project, Konya Bilim Merkezi Kurulması Projesi, 2009 - 2010

HÜDAVERDİ M., Project Supported by Other Official Institutions, Uzay Güvenilirlik Laboratuvarı Kurulumu, 2007 - 2009

HÜDAVERDİ M., TÜBİTAK Project, 2218 - Abell x-ray kaynaklarının optik eşlerinin araştırılması, 2007 - 2008

Ercan E. N., TÜBİTAK Project, 106T310 - Abell küme galaksilerin doğası: X-ışın ve optik bant mukayeseli analizleri, 2006 - 2008

HÜDAVERDİ M., Other International Funding Programs, InFocus Ballon experiment (NASA / JAXA), 2001 - 2005

Scientific Refereeing

The Galactic Center Black Hole Laboratory" 19-22 Kasım 2013, Granada - İSPANYA, konferansı bilimsel organize komite üyesi, SCI Journal, January 2013

Metrics

Publication: 55

Citation (WoS): 106

Citation (Scopus): 108

H-Index (WoS): 5

H-Index (Scopus): 6

Non Academic Experience

YTÜ Teknoloji Transfer Ofisi

The Côte d'Azur Observatory (Observatoire de la Côte d'Azur or OCA)

The Committee on Space Research (COSPAR)

TÜBİTAK

IKI - Space Research Institute of the Russian Academy of Sciences

Nagoya Üniversitesi - Ecotopia Science Institute

Nagoya Üniversitesi

Kagoshima Space Center - Japan