

Assoc. Prof. AHMET MECİT ÖZTAŞ

Personal Information

Office Phone: [+90 312 297 7243](tel:+903122977243)

Email: oztas@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/oztas>

Address: Hacettepe Üniversitesi Mühendislik Fakültesi Fizik Mühendisliği Bölümü 06800 Beytepe/Ankara

Education Information

Doctorate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1986 - 1991

Postgraduate, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1983 - 1985

Undergraduate, Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1979 - 1983

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2007 - Continues

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1993 - 2007

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

- I. **Re-evaluation of d_L of the normalised Friedmann-Lemaitre-Robertson-Walker model: Implications for Hubble constant determinations**
ÖZTAŞ A. M. , Smith M. L.
NEW ASTRONOMY, vol.88, 2021 (Journal Indexed in SCI)
- II. **Cosmic future of universe inferred from the horizon behaviours in Lambda proportional to a^{-2} , Lambda proportional to H^{-2} , Lambda proportional to ρ cosmological constant models**
ÖZTAŞ A. M. , Dil E., Tufekci O.
JOURNAL OF ASTROPHYSICS AND ASTRONOMY, vol.42, no.2, 2021 (Journal Indexed in SCI)
- III. **Entropic source of cosmological constant and implications: Generalization to higher dimensions**
ÖZTAŞ A. M. , Dil E.
PHYSICS OF THE DARK UNIVERSE, vol.31, 2021 (Journal Indexed in SCI)
- IV. **Testing adiabatic expansion of polytropic universe model with SNe Ia data**
Dil E., ÖZTAŞ A. M. , Dil E.
PHYSICA SCRIPTA, vol.95, no.6, 2020 (Journal Indexed in SCI)
- V. **The varying cosmological constant models tested with Supernovae Type Ia and HII Galaxy Data**

Dil E., ÖZTAŞ A. M. , Dil E.

ASTRONOMY AND COMPUTING, vol.28, 2019 (Journal Indexed in SCI)

- VI. **The effects of a varying cosmological constant on the particle horizon**
ÖZTAŞ A. M.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.481, no.2, pp.2228-2234, 2018 (Journal Indexed in SCI)
- VII. **The varying cosmological constant: a new approximation to the Friedmann equations and universe model**
ÖZTAŞ A. M. , Dil E., Smith M. L.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.476, no.1, pp.451-458, 2018 (Journal Indexed in SCI)
- VIII. **Space-time curvature and the cosmic horizon: derivations using the Newtonian world and the Friedmann-Robertson-Walker metric**
ÖZTAŞ A. M. , Smith M. L.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.449, no.2, pp.1270-1274, 2015 (Journal Indexed in SCI)
- IX. **The Cosmological Constant Constrained with Union2.1 Supernovae Type Ia Data Derivation and Evaluation of Several FRW and Carmeli Models Presenting Underwhelming Support for the Standard Model**
ÖZTAŞ A. M. , Smith M. L.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.53, no.8, pp.2636-2661, 2014 (Journal Indexed in SCI)
- X. **Is the possible fine-structure constant drift also a test of a time-dependent Planck constant?**
ÖZTAŞ A. M. , Smith M. L.
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, vol.54, no.12, pp.2191-2195, 2011 (Journal Indexed in SCI)
- XI. **CONSTRAINTS ON DARK ENERGY AND DARK MATTER FROM SUPERNOVAE AND GAMMA RAY BURST DATA**
Smith M. L. , Sekaran B., ÖZTAŞ A. M. , Paul J.
DARK ENERGY: THEORIES, DEVELOPMENTS AND IMPLICATIONS, pp.111-126, 2010 (Journal Indexed in SCI)
- XII. **Spacetime curvature is important for cosmology constrained with supernova emissions**
Oztas A. M. , Smith M. L. , Paul J.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.9, pp.2464-2478, 2008 (Journal Indexed in SCI)
- XIII. **Elliptical solutions to the standard cosmology model with realistic values of matter density**
Oztas A. M. , Smith M. L.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.45, no.5, pp.925-936, 2006 (Journal Indexed in SCI)
- XIV. **A model of light from ancient blue emissions**
Smith M. L. , Oztas A. M. , Paul J.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.45, no.5, pp.937-952, 2006 (Journal Indexed in SCI)
- XV. **Condition for gapless color-antitriplet excitations in Nambu-Jona-Lasinio models**
Sandin F., Oztas A. M.
PHYSICAL REVIEW C, vol.73, no.3, 2006 (Journal Indexed in SCI)
- XVI. **Phase diagram of three-flavor quark matter under compact star constraints**
Blaschke D., Fredriksson S., Grigorian H., Oztas A. M. , Sandin F.
PHYSICAL REVIEW D, vol.72, no.6, 2005 (Journal Indexed in SCI)
- XVII. **Diquark condensation effects on hot quark star configurations**
Blaschke D., Fredriksson S., Grigorian H., Oztas A. M.
NUCLEAR PHYSICS A, vol.736, pp.203-219, 2004 (Journal Indexed in SCI)
- XVIII. **The low-temperature phase of the Heisenberg antiferromagnet in a fermionic representation**
Azakov S., Dilaver M., Oztas A. M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.14, no.1, pp.13-28, 2000 (Journal Indexed in SCI)
- XIX. **PHASE-TRANSITION IN FINITE-TEMPERATURE STRING THEORIES**
OZTAS A. M. , GUNDUC Y., CELIK T.

Articles Published in Other Journals

- I. **Epochs of discontinuity for the standard model of cosmology with supernovae observational data**
Smith M. L. , ÖZTAŞ A. M.
Advanced Studies in Theoretical Physics, vol.2, no.1, pp.1-10, 2008 (Refereed Journals of Other Institutions)
- II. **Estimation of redshifts from early galaxies**
Smith M. L. , ÖZTAŞ A. M. , Paul J.
Annales de la Fondation Louis de Broglie, vol.32, no.1, pp.61-67, 2007 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Constraints on Dark Energy and Dark Matter from Supernovae and Gamma Ray Burst Data**
SMITH M., SAKARAN B., ÖZTAŞ A. M. , PAUL J.
in: DARK ENERGY THEORIES DEVELOPMENTS AND IMPLICATIONS, KARL LEFEBVRE, RAOUL GARCIA, Editor,
NOVA Science Publishers, Inc., New-York, pp.111-126, 2011
- II. **A Polytropic Solution of the Expanding Universe – Constraining Relativistic and Non-Relativistic Matter Densities Using Astronomical Results**
ÖZTAŞ A. M. , ML S.
in: Aspects of Today's Cosmology, Antonio Alfonso-Faus, Editor, IN TECH, Rijeka, pp.285-304, 2010

Citations

Total Citations (WOS):215

h-index (WOS):5