

Prof. MURAT ÖZER

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Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2019 - Continues

Advising Theses

ÖZER M., Sicim Motivasyonlu Skaler Alan Kozmolojileri Üzerine İncelemeler, Postgraduate, K.M.(Student), 1993

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Quantification of scattering from fiber surface irregularities**
Avram E., Mahmood W., ÖZER M.
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.20, no.4, pp.634-637, 2002 (SCI-Expanded)
- II. **Fate of the universe, age of the universe, dark matter, and the decaying vacuum energy**
Ozer M.
ASTROPHYSICAL JOURNAL, vol.520, no.1, pp.45-53, 1999 (SCI-Expanded)
- III. **A nonsingular universe in string cosmology**
Al-Nowaiser A. A., Ozer M., Taha M. O.
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.8, no.1, pp.43-49, 1999 (SCI-Expanded)
- IV. **Spontaneous decay of the effective cosmological constant**
Ozer M., Taha M. O.
MODERN PHYSICS LETTERS A, vol.13, no.7, pp.571-580, 1998 (SCI-Expanded)
- V. **Singular scalar field cosmologies with energy density decaying as t^{-2}**
Mubarak K. M., Ozer M.
CLASSICAL AND QUANTUM GRAVITY, vol.15, no.1, pp.75-88, 1998 (SCI-Expanded)
- VI. **Bounds on the vacuum component in cosmology with a decaying vacuum energy**
Özer M.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.404, pp.20-24, 1997 (SCI-Expanded)
- VII. **GIM mechanism and its consequences in the $SU(3)(L) \times U(1)(X)$ models of electroweak interactions**
Ozer M.
PHYSICAL REVIEW D, vol.54, no.7, pp.4561-4565, 1996 (SCI-Expanded)
- VIII. **$SU(3)(L) \times U(1)(X)$ model of electroweak interactions without exotic quarks**
Ozer M.

PHYSICAL REVIEW D, vol.54, no.1, pp.1143-1149, 1996 (SCI-Expanded)

- IX. **Approximate calculation of the N-loop effective potential for large field values through the renormalization group equation**
Ozer M.
MODERN PHYSICS LETTERS A, vol.11, no.10, pp.805-813, 1996 (SCI-Expanded)
- X. **The electromagnetic gauge invariance in the SU(3) \times U(1) \times models of electroweak unification**
Özer M.
Physics Letters B, vol.337, pp.324-327, 1994 (SCI-Expanded)
- XI. **ASYMPTOTIC-BEHAVIOR OF THE HIGGS COUPLING IN SU(2) \times U(1) THEORY**
ALHENDI H., OZER M., Taha M. O.
PHYSICAL REVIEW D, vol.46, no.1, pp.428-430, 1992 (SCI-Expanded)
- XII. **Exact solutions in string-motivated scalar-field cosmology**
Azer M., Taha M.
Physical Review D, vol.45, no.4, 1992 (SCI-Expanded)
- XIII. **Top quark mass from gut mass relations**
Alhendi H., Özer M., Taha M.
Physics Letters B, vol.213, no.3, pp.337-339, 1988 (SCI-Expanded)
- XIV. **A model of the universe free of cosmological problems**
Özer M., Taha M.
Nuclear Physics, Section B, vol.287, pp.776-796, 1987 (SCI-Expanded)
- XV. **THE HIGGS BOSON MASS IN STANDARD ELECTROWEAK THEORY**
ALHENDI H., ÖZER M., Taha M. O.
ZEITSCHRIFT FÜR PHYSIK C-PARTICLES AND FIELDS, vol.36, no.4, pp.639-641, 1987 (SCI-Expanded)
- XVI. **A possible solution to the main cosmological problems**
Özer M., Taha M.
Physics Letters B, vol.171, no.4, pp.363-365, 1986 (SCI-Expanded)
- XVII. **More on generalized gauge hierarchies with two-loop β -functions**
Al-Hendi H., Özer M.
Physics Letters B, vol.166, no.2, pp.183-185, 1986 (SCI-Expanded)
- XVIII. **PRECOCIOUS UNIFICATION IN SIMPLE GRAND UNIFIED THEORIES**
OZER M.
PHYSICAL REVIEW D, vol.31, no.1, pp.181-184, 1985 (SCI-Expanded)
- XIX. **Do light lepto-quark bosons exist?**
Özer M.
Physics Letters B, vol.146, pp.233-236, 1984 (SCI-Expanded)
- XX. **The role of 75H in fermion mass hierarchy**
Kim J. E., Özer M.
Physics Letters B, vol.134, no.6, pp.425-428, 1984 (SCI-Expanded)
- XXI. **Fermion mass ratios and low energy grand unification**
Özer M.
Physics Letters B, vol.124, pp.64-66, 1983 (SCI-Expanded)
- XXII. **More on generalized gauge hierarchies**
Özer M.
Physics Letters B, vol.118, pp.355-358, 1982 (SCI-Expanded)
- XXIII. **NEUTRON-ANTINEUTRON OSCILLATIONS AND RENORMALIZATION EFFECTS FOR $\Delta B=2$ 6-QUARK OPERATORS**
OZER M.
PHYSICAL REVIEW D, vol.26, no.11, pp.3159-3166, 1982 (SCI-Expanded)
- XXIV. **COLOR PRODUCTION IN THE PATI-SALAM MODEL**
Mtingwa S. K., OZER M.
PHYSICAL REVIEW D, vol.23, no.1, pp.85-88, 1981 (SCI-Expanded)

XXV. Liberated color in leptoproduction

Özer M., Pati J. C.

Nuclear Physics, Section B, vol.159, no.3, pp.293-315, 1979 (SCI-Expanded)

Articles Published in Other Journals

I. Is There an Age of the Universe Problem after the Hipparcos Data?

ÖZER M.

TURKISH JOURNAL OF PHYSICS, vol.25, 2001 (Scopus)

II. On the One-Loop Yukawa Coupling Beta-Function to Order $Y g^2$ in a General $U(1) \times SU(2) \times U(1)$ Gauge and its Gauge Independence

ÖZER M.

TURKISH JOURNAL OF PHYSICS, vol.22, 1998 (Scopus)

III. $SU(3)_C \times U(1)_X$ Models of Electroweak Unification with Natural Conservation Laws for Neutral Currents

ÖZER M.

TURKISH JOURNAL OF PHYSICS, vol.21, no.4, pp.614-620, 1997 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Surface scratch and pit analysis on optical interfaces

Mahmood W., Ozer M., Avram E.

Conference on Active and Passive Optical Components for WDM Communication, Colorado, United States Of America, 21 - 24 August 2001, vol.4532, pp.323-329

Supported Projects

ÖZER M., Project Supported by Higher Education Institutions, Genel Rölativite Teorisinin Elektromanyetizma Kısımının ve Gravitasyon ile Elektromanyetizmanın Yeni Birleşik Teorisinin Deneysel Testi, 2015 - 2018

ÖZER M., Project Supported by Other Official Institutions, Elektrik Alanı İçerisinde Mössbauer İncelemeleri, 2010 - 2013

Metrics

Publication: 29

Citation (WoS): 724

Citation (Scopus): 833

H-Index (WoS): 8

H-Index (Scopus): 10

Non Academic Experience

CIENA Corporation

King Saud University

King Saud University

King Saud University