

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**
 Özer M.
 MODERN PHYSICS LETTERS A, vol.11, no.10, pp.805-813, 1996 (SCI-Expanded)
- X. The electromagnetic gauge invariance in the SU(3)L×U(1)x 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)XU(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 FUR 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 DELTAB=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**
 Mttingwa 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 ? Gauge and its Gauge Independence
ÖZER M.
TURKISH JOURNAL OF PHYSICS, vol.22, 1998 (Scopus)
- III. SU(3)L x 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 Kısminın ve Gravitasyon ile Elektomanyatızmanın 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