

## Prof. MURAT ÖZER

### Personal Information

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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  $\beta$ -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