

Prof. Neşe Özdemir

Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Anabilim Dalı, Turkey 1990 - 1994

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Turkey 1987 - 1990

Undergraduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1983 - 1987

Foreign Languages

English

Dissertations

Doctorate, Küresel dalgalarda vakum dalgalanmaları, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Anabilim Dalı, 1994

Research Areas

Basic Sciences, Physics, Basic Particles and Areas, General Theory of Particles and Fields

Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2005 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1999 - 2005

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1995 - 1999

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1989 - 1995

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen Edebiyat, 2016 - Continues

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 2004 - 2007

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

- I. Superconformal generalizations of auxiliary vector modified polynomial $f(R)$ theories

- Boran S., Kahya E. O. , Özdemir N., Özkan M., Zorba U.
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, no.4, 2020 (Journal Indexed in SCI)
- II. **Three-dimensional higher-order Schrodinger algebras and Lie algebra expansions**
Kasikci O., Özdemir N., Özkan M., Zorba U.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2020 (Journal Indexed in SCI)
- III. **Anisotropic massive Brans-Dicke gravity extension of the standard Lambda CDM model**
Akarsu Ö., Katirci N., Özdemir N., Vazquez J. A.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (Journal Indexed in SCI)
- IV. **Three-dimensional extended Lifshitz, Schrödinger and Newton-Hooke supergravity**
Özdemir N., Özkan M., Zorba U.
Journal of High Energy Physics, vol.2019, no.11, 2019 (Journal Indexed in SCI)
- V. **Three-dimensional extended Newtonian (super)gravity**
Özdemir N., Özkan M., Tunca O., Zorba U.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2019 (Journal Indexed in SCI)
- VI. **Scale invariance in Newton-Cartan and Horava-Lifshitz gravity**
Devecioglu D. O. , Özdemir N., Özkan M., Zorba U.
CLASSICAL AND QUANTUM GRAVITY, vol.35, no.11, 2018 (Journal Indexed in SCI)
- VII. **Broken scale invariance, alpha-attractors and vector impurity**
Akarsu Ö., BORAN S., Kahya E. O. , Özdemir N., Özkan M.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.5, 2017 (Journal Indexed in SCI)
- VIII. **Einstein-Cartan-Dirac theory in (1+2)-dimensions**
Dereli T., Özdemir N., Sert O.
EUROPEAN PHYSICAL JOURNAL C, vol.73, no.1, 2013 (Journal Indexed in SCI)
- IX. **Spinning cosmic strings: A general class of solutions**
Ozdemir N.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.20, no.13, pp.2821-2832, 2005 (Journal Indexed in SCI)
- X. **Maxwell equations in the spinning cosmic string spacetimes**
OZDEMIR F., Ozdemir N.
GENERAL RELATIVITY AND GRAVITATION, vol.36, no.9, pp.2053-2062, 2004 (Journal Indexed in SCI)
- XI. **Gravitomagnetic effects and cosmic strings**
Ozdemir N.
CLASSICAL AND QUANTUM GRAVITY, vol.20, no.20, pp.4409-4417, 2003 (Journal Indexed in SCI)
- XII. **Motion of charged particles around a rotating black hole in a magnetic field**
ALIEV A., Ozdemir N.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.336, no.1, pp.241-248, 2002 (Journal Indexed in SCI)
- XIII. **Exact metric around a wiggly cosmic string**
Ozdemir N.
GENERAL RELATIVITY AND GRAVITATION, vol.33, no.3, pp.603-606, 2001 (Journal Indexed in SCI)
- XIV. **Cancellation of ultraviolet divergences for locally flat metrics**
HORTACSU M., Ozdemir N.
MODERN PHYSICS LETTERS A, vol.13, no.38, pp.3081-3090, 1998 (Journal Indexed in SCI)
- XV. **Semiclassical corrections to the metric of multiple cosmic strings - Addendum**
ALIEV A., Ozdemir N.
CLASSICAL AND QUANTUM GRAVITY, vol.15, no.12, pp.3937-3940, 1998 (Journal Indexed in SCI)
- XVI. **Quantum fluctuations of some gravitational waves**
ENGINER Y., HORTACSU M., KAYA R., Ozdemir N., ULKER K., YAPISKAN B.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.29, no.10, pp.1029-1048, 1998 (Journal Indexed in SCI)
- XVII. **Can an Unruh detector feel a cosmic string?**
Bilge A., HORTACSU M., Ozdemir N.
GENERAL RELATIVITY AND GRAVITATION, vol.30, no.6, pp.861-876, 1998 (Journal Indexed in SCI)

- XVIII. **Quantum fluctuations for a scalar field in the space-time of gravitational impulsive wave**
ENGINER Y., HORTACSU M., Ozdemir N.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.13, no.8, pp.1201-1211, 1998 (Journal Indexed in SCI)
- XIX. **Vacuum fluctuations of a massless spin-1/2 field around multiple cosmic strings**
ALIEV A., HORTACSU M., Ozdemir N.
CLASSICAL AND QUANTUM GRAVITY, vol.14, no.12, pp.3215-3224, 1997 (Journal Indexed in SCI)
- XX. **Particle creation if a cosmic string snaps**
Bilge A., HORTACSU M., Ozdemir N.
GENERAL RELATIVITY AND GRAVITATION, vol.28, no.5, pp.511-525, 1996 (Journal Indexed in SCI)
- XXI. **QUANTUM FLUCTUATIONS OF A SPHERICAL GRAVITATIONAL SHOCK-WAVE .2.**
OZDEMIR N., HORTACSU M.
CLASSICAL AND QUANTUM GRAVITY, vol.12, no.5, pp.1221-1227, 1995 (Journal Indexed in SCI)
- XXII. **REDUCTION OF SPACE-TIME BY A CONSTRAINT FOR C-0 METRICS**
HORTACSU M., OZDEMIR N.
JOURNAL OF MATHEMATICAL PHYSICS, vol.35, no.1, pp.173-180, 1994 (Journal Indexed in SCI)

Supported Projects

Özdemir N., Project Supported by Higher Education Institutions, Gravitational collapse of Spherically Symmetric Charged Fluid In RN-de Sitter, 2006 - 2018

Özdemir N., Project Supported by Higher Education Institutions, Non-Adiabatic Radiating Collapse in de Sitter Spacetime, 2005 - 2018

Özdemir N., Project Supported by Higher Education Institutions, Yüksek Boyutlu Uzaylarda Warp Geometrisi, 2004 - 2006

Citations

Total Citations (WOS):178

h-index (WOS):7