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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JCO-3669-2023

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### Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Genel Astronomi, Turkey 1990 - 1995

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Astrofizik, Turkey 1987 - 1989

Undergraduate, Ege University, Faculty Of Science, Astronomi Ve Uzay Bilimleri - Fizik, Turkey 1982 - 1986

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, BIANCHI TİPİ KOZMOLOJİLER, Ege University, Fen Bilimleri Enstitüsü, Genel Astronomi, 1995

Postgraduate, IŞIK-ZAMAN ETKİSİ VE BAZI UYGULAMALARI, Ege University, Fen Bilimleri Enstitüsü, Astrofizik, 1989

### Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Electromagnetism, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics, Basic Particles and Areas, Natural Sciences

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Teleparallel energy-momentum distribution of various black hole and wormhole metrics**  
Aygun S., Baysal H., Aktas C., Yilmaz I., Sahoo P. K., Tarhan I.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.33, no.30, 2018 (SCI-Expanded)
- II. **Energy-momentum localization for Bianchi type-IV Universe in general relativity and teleparallel**

**gravity**

AYGÜN S., TARHAN İ.

PRAMANA-JOURNAL OF PHYSICS, vol.78, no.4, pp.531-548, 2012 (SCI-Expanded)

- III. **The Decay of Massive Scalar Field in Non-Static Godel Type Universe with Viscous Fluid and Heat Flow**  
Ayguen S., TARHAN İ.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.12, pp.3257-3266, 2008 (SCI-Expanded)
- IV. **Scalar field theory and energy-momentum problem of Yilmaz-Rosen metric in general relativity and teleparallel gravity**  
AYGÜN S., TARHAN İ., Baysal H.  
ASTROPHYSICS AND SPACE SCIENCE, vol.314, no.4, pp.323-330, 2008 (SCI-Expanded)
- V. **Energy distributions of the Szekeres universes in teleparallel gravity**  
AYGÜN S., TARHAN İ., BAYSAL H.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.47, no.3, pp.722-731, 2008 (SCI-Expanded)
- VI. **Energy momentum of marder universe in teleparallel gravity**  
Ayguen S., Baysal H., Tarhan I.  
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.46, no.10, pp.2607-2616, 2007 (SCI-Expanded)
- VII. **Moller energy-momentum complex in general relativity for higher dimensional universes**  
Ayguen M., Ayguen S., Yilmaz I., Baysal H., Tarhan I.  
CHINESE PHYSICS LETTERS, vol.24, no.7, pp.1821-1824, 2007 (SCI-Expanded)
- VIII. **On the energy-momentum problem in static Einstein universe**  
Aygun S., Tarhan I., Baysal H.  
CHINESE PHYSICS LETTERS, vol.24, no.2, pp.355-358, 2007 (SCI-Expanded)
- IX. **Energy-momentum localization in Marder space-time**  
Aygun S., Aygun M., Tarhan I.  
PRAMANA-JOURNAL OF PHYSICS, vol.68, no.1, pp.21-30, 2007 (SCI-Expanded)
- X. **Energy distributions in Szekeres type I and II space-times**  
Aygun S., Aygun M., Tarhan I.  
ACTA PHYSICA POLONICA B, vol.37, no.10, pp.2781-2793, 2006 (SCI-Expanded)
- XI. **Conformal collineations in string cosmology**  
Baysal H., CAMCI U., Tarhan I., Yilmaz I., YAVUZ İ.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.11, no.3, pp.463-469, 2002 (SCI-Expanded)
- XII. **Some cosmological models with perfect fluid, scalar field and heat flux in rotating universe**  
Tarhan I.  
ASTRONOMISCHE NACHRICHTEN, vol.323, no.5, pp.494-498, 2002 (SCI-Expanded)
- XIII. **Rotating string cosmologies with scalar field and heat flux**  
Baysal H., Yilmaz I., Tarhan I.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.10, no.6, pp.935-942, 2001 (SCI-Expanded)
- XIV. **Ricci collineations of the Bianchi types I and III, and Kantowski-Sachs spacetimes**  
CAMCI U., Baysal H., Tarhan I., Yilmaz I., YAVUZ İ.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.10, no.5, pp.751-765, 2001 (SCI-Expanded)
- XV. **Generation of Bianchi type V universes filled with a perfect fluid**  
CAMCI U., YAVUZ İ., Baysal H., Tarhan I., Yilmaz I.  
ASTROPHYSICS AND SPACE SCIENCE, vol.275, no.4, pp.391-400, 2001 (SCI-Expanded)
- XVI. **Curvature inheritance symmetry in Riemannian spaces with applications to string cloud and string fluids**  
Yilmaz I., Tarhan I., YAVUZ İ., Baysal H., CAMCI U.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.8, no.5, pp.659-668, 1999 (SCI-Expanded)
- XVII. **Some string cosmological models in Bianchi Type I space-time**  
Yavuz I., Tarhan I.  
ASTROPHYSICS AND SPACE SCIENCE, vol.240, no.1, pp.45-54, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of offshore wind characteristics for the northwest of Türkiye region by using multi-criteria decision-making method (MOORA)**  
Başaran H. H., TARHAN İ.  
Results in Engineering, vol.16, 2022 (Scopus)
- II. **Afganistan'ın Yenilenebilir Enerji Kaynaklarının Teorik Potansiyelleri ve Kullanım Kapasiteleri**  
Abdul Maroof S., TARHAN İ.  
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.5, no.1, pp.157-186, 2019 (Peer-Reviewed Journal)
- III. **Rüzgar Enerjisinin Önemli Geçiş Yerlerinden Olan Çanakkale Bölgesindeki Bazı Rüzgar Enerji Santralleri için Kapasite Faktörü İncelemesi**  
GENÇEL H., TARHAN İ.  
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.5, no.1, pp.120-139, 2019 (Peer-Reviewed Journal)
- IV. **Skaler Alan Kozmolojilerde Manyetik Alan Kaynaklı Bazı Kozmolojik Modeller**  
KANMAZ K., TARHAN İ.  
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, no.34, pp.41-56, 2015 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Biyokütle Enerjisi**  
Tarhan İ., Yüksel B., Demircan O., Özmetin C., Türkeş M., Sümer S. K., Yiğit M., Baysal H., Şahiner N., İlten N., et al.  
in: TR22 Güney Marmara Bölgesi Yenilenebilir Enerji Araştırması Sonuç Raporu, Prof. Dr. İsmail TARHAN, Prof. Dr. Bedri YÜKSEL, Editor, GMKA, Balıkesir, pp.70-96, 2013

## Refereed Congress / Symposium Publications in Proceedings

- I. **Kraniyospinal VMAT ışınlamalarında iç içe alanların kullanımının olası setup hatalarındaki doz dağılımına etkisi**  
DURMUŞ İ. F., TAŞ B., ATALAY E. D., TARHAN İ., ERTEKİN M. V.  
XII. Ulusal Radyasyon Onkolojisi Kongresi, Antalya, Turkey, 20 - 24 April 2016
- II. **Comparing Dose Distributions of Dose to Water and Dose to Medium Calculations for Lung Intracranial SRT**  
ATALAY E. D., DURMUŞ İ. F., TAŞ B., TARHAN İ.  
1st Int. Physics Conference At Anatolian Peak (IPCAP 2016), Erzurum, Turkey, 25 - 27 February 2016
- III. **BERTOTTİ ROBINSON UZAY ZAMANININ ENERJİ MOMENTUM DAĞILIMLARI**  
AYGÜN S., AYGÜN M., TARHAN İ., BAYSAL H.  
XVI. Ulusal Astronomi Kongresi, V. Ulusal Astronomi Kongresi, Turkey, 8 - 12 September 2008
- IV. **Bertotti-Robinson Uzay-Zamanının Enerji-Momentum Dağılımları**  
AYGÜN S., ULU DOĞRU M., TARHAN İ., BAYSAL H.  
6th XVI. Ulusal Astronomi Kongresi ve V. Ulusal Öğrenci Astronomi Kongresi-2008, Turkey, 8 - 12 September 2008
- V. **Some Properties of Gödel Space-Time with Viscous Fluid and Scalar Field**  
VARLIKLI N., BAKALA P., TARHAN İ.  
RAGTIME - 2007, Opava, Czech Republic, 16 - 19 September 2007
- VI. **The Decay of Massive Scalar Field in a Rotating Universe**  
AYGÜN S., AYGÜN M., VARLIKLI N., TARHAN İ.  
12th Regional Conference on Mathematical Physics, Islamabad, Pakistan, 27 March - 01 April 2006
- VII. **Some Cosmological Models with Scalar Field and Their Properties**

AYGÜN S., TARHAN İ., ULU DOĞRU M., BAYSAL H.

23rd International Physics Congress, Muğla, Turkey, 13 - 16 October 2005, pp.1287-1292

**VIII. SOME COSMOLOGICAL MODELS WITH SCALAR FIELDS AND THEIR PROPERTIES**

AYGÜN S., TARHAN İ., BAYSAL H.

23. International Physical Congress, Muğla, Turkey, 13 - 16 October 2005

**IX. Some Cosmological Models with Cosmic Strings in Scalar Field Cosmologies**

AYGÜN S., TARHAN İ., AYGÜN M., BAYSAL H.

World Year of Physics 2005- Turkish Physical Society 23rd International Physics Congress, 13 - 16 September 2005

**X. Some Cosmological Models with Cosmic Strings in Scalar Field Cosmologies and Their Properties**

AYGÜN S., TARHAN İ., ULU DOĞRU M., BAYSAL H.

Türk Fizik Derneği Uluslar arası Kongresi, Muğla Üniversitesi -2005, 13 - 16 September 2005

**XI. Riemann Uzayındaki Eğrilik Inheritance Simetrisinin String Bulutu ve String Akışkan'ına Uygulaması**

YILMAZ İ., YAVUZ İ., BAYSAL H., TARHAN İ., CAMCI U.

XII. Ulusal Astronomi Toplantısı, İzmir, Turkey, 11 May - 14 April 2001, pp.509-520

**XII. Kozmik Nötrino Kaynaklı Bazı Kozmolojik Modeller**

TARHAN İ., ÖZDEMİR M., BAYSAL H., CAMCI U., YILMAZ İ., YAVUZ İ.

XII: Ulusal Astronomi Toplantısı, İzmir, Turkey, 11 - 14 May 2001, pp.495-507

**XIII. Bir İdeal Akışkanla Dolu Bianchi Tipi V Uzay-Zaman Çözümleri**

CAMCI U., YAVUZ İ., BAYSAL H., TARHAN İ., YILMAZ İ.

II. Spil Fen Bilimleri Kongresi, Manisa, Turkey, 23 - 25 October 1997, vol.2, pp.75-80

**XIV. Bianchi Tipi III Uzay-Zamanda Isı Akılı String (Sicim) Kozmolojinin Bazı Exact Çözümleri**

YAVUZ İ., YILMAZ İ., TARHAN İ., BAYSAL H., CAMCI U., ERDEM A., DEMİR R.

II. Spil Fen Bilimleri Kongresi, Manisa, Turkey, 23 - 25 October 1997, vol.2, pp.113-119

**XV. Sistring Akışkanlarda Inheritance Konformal Simetriler**

YAVUZ İ., YILMAZ İ., BAYSAL H., TARHAN İ.

I. Kızılırmak Fen Bilimleri Kongresi, Kırıkkale, Turkey, 14 - 16 May 1997, pp.135-146

**XVI. Bianchi Tipi I Uzay-Zamanda Bazı String (Sicim) Kozmolojik Modeller**

YAVUZ İ., TARHAN İ., BAYSAL H., CAMCI U., YILMAZ İ.

I. Kızılırmak Fen Bilimleri Kongresi, Kırıkkale, Turkey, 14 - 16 May 1997, pp.200-211

## Supported Projects

TARHAN İ., BAYSAL H., CAMCI U., Project Supported by Higher Education Institutions, Genel relativite teorisi çerçevesinde evrenin plazma yapısı ve evrimi, 2001 - 2006

YILMAZ İ., BAYSAL H., TARHAN İ., AKTAŞ C., Project Supported by Higher Education Institutions, Rotasyon Yapan ideal Akışkanlı, skaler alanlı ve ısı akılı kozmolojik Modeller, 2001 - 2006

BAYSAL H., YILMAZ İ., CAMCI U., TARHAN İ., Project Supported by Higher Education Institutions, String kozmolojide konformal kollinasyonlar, 2001 - 2003

## Metrics

Publication: 40

Citation (WoS): 174

Citation (Scopus): 193

H-Index (WoS): 9

H-Index (Scopus): 10