

Prof. Devrim YAZICI

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-5530-2020

Yoksis Researcher ID: 174418

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1996 - 2000

Postgraduate, Yildiz Technical University, Fen Ve Edebiyat Fakültesi, Fizik, Turkey 1993 - 1996

Undergraduate, Yildiz Technical University, Fen Ve Edebiyat Fakültesi, Fizik, Turkey 1989 - 1993

Dissertations

Doctorate, Çok bileşenli süper çözülebilir sistemlerin hamilton yapıları, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 2000

Postgraduate, İyonosferin iletkenliği ve manyetik alanların neden olduğu magneto-akustik gravite dalgalarının sönüme uğraması, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 1996

Research Areas

Physics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2012 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2002 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1995 - 2002

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, Beden Eğitimi Bölümü, 2016 - 2018

Fakülte Akademik Kurul Üyesi, Yildiz Technical University, 2014 - 2017

Courses

Fizik 1, Undergraduate, 2020 - 2021
Teorik Klasik Mekanik, Postgraduate, 2019 - 2020
Klasik Mekanik, Undergraduate, 2018 - 2019
Klasik Elektromanyetik Teori 1, Undergraduate, 2016 - 2017
Fizikte Diferansiyel Denklemler, Undergraduate, 2015 - 2016

Advising Theses

Yazıcı D., Evrimsel (2+1)-Boyutlu Hirota Tipi Denklemlerin İkili-Hamiltoniyen Yapıları, Postgraduate, D.KOCAMAN(Student), 2022
Yazıcı D., Asimetrik Heavenly denkleminin simetri indirilmesi ve bi-Hamilton Yapısı, Postgraduate, H.Sert(Student), 2013
Yazıcı D., (3+1) Boyutta İntegre Edilebilir Sistemler ve bi-Hamiltoniyen Yapıları, Postgraduate, B.Memişoğlu(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Generalized fractional bi-Hamiltonian structure of Plebański's second heavenly equation in terms of conformable fractional derivatives**
YAZICI D., Topuz S.
Journal of Computational and Applied Mathematics, vol.452, 2024 (SCI-Expanded)
- II. **Recursion operators and bi-Hamiltonian representations of cubic evolutionary (2+1)-dimensional systems**
Sheftel M. B., Yazici D.
Communications in Nonlinear Science and Numerical Simulation, vol.112, 2022 (SCI-Expanded)
- III. **Symmetries, integrals and hierarchies of new (3+1)-dimensional bi-Hamiltonian systems of Monge-Ampère type**
Sheftel M., Yazıcı D.
Journal of Geometry and Physics, vol.146, 2019 (SCI-Expanded)
- IV. **Lax pairs, recursion operators and bi-Hamiltonian representations of (3+1)-dimensional Hirota type equations**
Sheftel M. B., YAZICI D.
JOURNAL OF GEOMETRY AND PHYSICS, vol.136, pp.207-227, 2019 (SCI-Expanded)
- V. **Evolutionary Hirota Type (2+1)-Dimensional Equations: Lax Pairs, Recursion Operators and Bi-Hamiltonian Structures**
Sheftel M. B., YAZICI D.
SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS, vol.14, 2018 (SCI-Expanded)
- VI. **Recursion operators and bi-Hamiltonian structure of the general heavenly equation**
Sheftel M. B., YAZICI D., MALYKH A. A.
JOURNAL OF GEOMETRY AND PHYSICS, vol.116, pp.124-139, 2017 (SCI-Expanded)
- VII. **Generalization of bi-Hamiltonian systems in (3+1) dimension, possessing partner symmetries**
YAZICI D.
JOURNAL OF GEOMETRY AND PHYSICS, vol.101, pp.11-18, 2016 (SCI-Expanded)
- VIII. **Recursion Operators and Tri-Hamiltonian Structure of the First Heavenly Equation of Plebanski**
Sheftel M. B., YAZICI D.
SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS, vol.12, 2016 (SCI-Expanded)
- IX. **Anti-self-dual gravitational metrics determined by the modified heavenly equation**
Sheftel M. B., YAZICI D.
JOURNAL OF GEOMETRY AND PHYSICS, vol.85, pp.252-258, 2014 (SCI-Expanded)
- X. **Bi-Hamiltonian structure of an asymmetric heavenly equation**

- Yazici D.
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.44, no.50, 2011 (SCI-Expanded)
- XI. **BI-HAMILTONIAN REPRESENTATION, SYMMETRIES AND INTEGRALS OF MIXED HEAVENLY AND HUSAIN SYSTEMS**
Sheftel M. B., YAZICI D.
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.17, no.4, pp.453-484, 2010 (SCI-Expanded)
- XII. **MULTIPLE LOCAL LAGRANGIANS FOR n-COMPONENT SUPER-KORTEWEG DE VRIES-TYPE BI-HAMILTONIAN SYSTEMS**
Oguz O., YAZICI D.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.25, no.5, pp.1069-1078, 2010 (SCI-Expanded)
- XIII. **Self-dual gravity is completely integrable**
Nutku Y., Sheftel M. B., Kalayci J., YAZICI D.
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.41, no.39, 2008 (SCI-Expanded)
- XIV. **Symmetry Reductions of Second Heavenly Equation and 2+1-Dimensional Hamiltonian Integrable Systems**
YAZICI D., Sheftel M. B.
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, vol.15, pp.417-425, 2008 (SCI-Expanded)
- XV. **Symmetries, integrals, and three-dimensional reductions of Plebanski's second heavenly equation**
Neyzi F., Sheftel M. B., Yazici D.
PHYSICS OF ATOMIC NUCLEI, vol.70, no.3, pp.584-592, 2007 (SCI-Expanded)
- XVI. **Dirac constraint analysis and symplectic structure of anti-self-dual Yang-Mills equations**
Camci U., Can Z., Nutku Y., Sucu Y., Yazici D.
PRAMANA-JOURNAL OF PHYSICS, vol.67, pp.1043-1053, 2006 (SCI-Expanded)
- XVII. **Hamiltonian structure of multi component integrable systems**
Yazici D., Oguz O., Oguz O.
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.51, pp.1459-1463, 2001 (SCI-Expanded)
- XVIII. **Multi-component bi-super hamiltonian KdV systems**
Yazici D., Oguz O., Oguz O.
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL, vol.34, pp.7713-7718, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **(2+1)-dimensional bi-Hamiltonian system obtained from symmetry reduction of (3+1)- dimensional Hirota type equation**
Yazıcı D.
AIP Conference Proceedings, pp.1-4, 2019 (Peer-Reviewed Journal)
- II. **Symmetry reduction of the first heavenly equation and 2**
YAZICI D.
TURKISH JOURNAL OF PHYSICS, vol.42, no.2, pp.183-190, 2018 (ESCI)
- III. **Symmetry Reduction of Asymmetric Heavenly Equation and 2 1 Dimensional Bi Hamiltonian System**
YAZICI D., SERT H.
Jornal of Geometry and Symmetry in Physics, vol.34, no.34, pp.87-96, 2014 (Scopus)
- IV. **A new 2 1 Dimesional Hamiltonian Integrable System**
YAZICI D.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.27, pp.118-128, 2009 (Peer-Reviewed Journal)
- V. **Çok Bileşenli Lineer Olmayan Süper Çözülebilir Sistemler**
Yazıcı D.
Yıldız Teknik Üniversitesi Dergisi, vol.2001, no.1, pp.9-19, 2002 (Peer-Reviewed Journal)
- VI. **Orta Atmosferde Yatay Rüzgar Hızının Mevsimsel Değişimi ve Gravite Dalgaları Üzerindeki etkileri**
Yazıcı D.

İstanbul Ticaret Üniversitesi Dergisi, vol.1, pp.253-264, 2002 (Peer-Reviewed Journal)

- VII. **İyonosferin İletkenliği ve Manyetik Alanların Neden Olduğu Magneto Akustik Gravite Dalgalarının Sönüme Uğraması**

YAZICI D., OGUZ O.

Yıldız Teknik Üniversitesi Dergisi, vol.3, no.4, pp.253-264, 1996 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **SYMMETRY REDUCTION OF MONGE AMPERE TYPE EQUATION AND (2+1)-DIMENSIONAL BI-HAMILTONIAN SYSTEM**
Yazıcı D., Yaman S.
TURKISH PHYSICAL SOCIETY 38 th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.239
- II. **TWO EXAMPLES FOR HOLONOMIC CONSTRAINED MECHANICAL SYSSTEMS WITH FRACTIONAL VARIATION**
Yazıcı D., Topuz S.
TURKISH PHYSICAL SOCIETY 38 th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.241
- III. **Bi-Hamiltonian Structure of (2+1)-dimensional Evolutinary Hirota Type Equation**
Yazıcı D.
TURKISH PYHSICAL SOCIETY 37th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 1 - 05 September 2021, pp.167
- IV. **(2+1)-Dimensional Bi-Hamiltonian System Obtained from Symmetry Reduction of (3+1)-Dimensional Hirota Type Equation**
Yazıcı D.
Turkish Physical Society-35th International Physics Congress (TPS-35), Muğla, Turkey, 3 - 08 September 2019, pp.252
- V. **Recursion operators and tri Hamiltonian structure of the first heavenly equation of Plebanski**
YAZICI D., Sheftel M. B.
XXIV nd International Colloquium on Integrable Systems (ISQS-24), Prague, Czech Republic, 14 - 18 June 2016
- VI. **Two different bi-Hamiltonian structure of the First Heavenly Equation of Plebanski**
Yazıcı D.
XXIV International Conference on Integrable Sysetms and Quantum Symmetries, Praha, Czech Republic, 14 - 18 June 2016, pp.1-2
- VII. **Bi-Hamiltonian Structure of Modified Heavenly Equation**
Yazıcı D.
Turkish Physical Society, 31st International Physics Congress, Muğla, Turkey, 21 - 24 July 2014, pp.1
- VIII. **SYMMETRY REDUCTION OF ASYMMETRIC HEAVENLY EQUATION AND 2+1-DIMENSIONAL BI-HAMILTONIAN SYSTEM**
YAZICI D., Sert H.
15th International Conference on Geometry, Integrability and Quantization, Varna, Bulgaria, 7 - 12 June 2013, pp.309-317
- IX. **Dirac Constraint Analysis and Symplectic Structure of an Asymmetric Heavenly Equations**
YAZICI D.
Turkish Physical Society, 29th International Physics Conference, Muğla, Turkey, 5 - 08 September 2012
- X. **3 1 Dimensional Mullti Hamiltonian Integrable Systems**
YAZICI D., MEMİŞOĞLU B.
Turkish Physical Society, 26. International Physics Conference, Muğla, Turkey, 24 - 27 September 2009
- XI. **Mixed heavenly equation: a new integrable multi-Hamiltonian system**
Yazıcı D.

Eighth International conference Symetry in Nonlinear Mathematical Physics, Kyyiv, Ukraine, 21 - 27 July 2009, pp.1-2

XII. Symmetry reductions of second heavenly equation and 2 1 dimensional Hamiltonian integrable systems

Yazıcı D., M B S.

NEEDS 2007 Workshop, Barcelona, Spain, 17 - 23 June 2007

XIII. Multiple Lagrangians for n-component bi-Hamiltonian systems

Yazıcı D.

Turk Physical Society 23rd International Physics Congress, Muğla, Turkey, 13 - 16 September 2005, pp.400-405

XIV. Gravity Waves Induced Ionization Lagers in The F Region Over İstanbul

Yazıcı D., Can Z., Aslan Z., Oğuz O.

Geophysical Research Abstracts, Amsterdam, Netherlands, 07 July 1999, vol.1, no.3, pp.624

XV. Gezici İyonosfer Bozuklukları ve Es Tabakası

OĞUZ O., YAZICI D., CAN Z.

Türk Fizik Derneği, 17.Fizik Kongresi, Alanya, Turkey, 27 - 31 October 1998

XVI. İyonosferin İletkenliği ve Manyetik Alanların Neden Olduğu Magneto Akustik Gravite Dalgalarının Sönüme Uğraması

YAZICI D., OĞUZ O.

Türk Fizik Derneği 15.Fizik Kongresi, Turkey, 26 - 29 September 1994

Supported Projects

BOZKURT K., ÖZTÜRK O. F., GÜVEN H. Z., YAZICI D., Project Supported by Higher Education Institutions, Nötron Yıldızı Çekirdeğinde Kuark Madde Faz Geçişlerinin İncelenmesi, 2021 - 2023

YAZICI D., SHEFTEL M., Project Supported by Higher Education Institutions, Heavenly tipi denklemlerin bi-Hamiltoniyen temsili simetriler ve korunum yasaları, 2021 - 2022

YAZICI D., SHEFTEL M. B., Project Supported by Higher Education Institutions, Matematiksel fizikte lineer olamayan denklemlerin simetrileri korunum yasaları integre edilebilirlik ve biHamiltoniyen yapıları, 2018 - 2019

Yazıcı D., Kaya R., Can Z., Project Supported by Higher Education Institutions, Kütle çekim Dalgaları, 2000 - 2004

Metrics

Publication: 41

Citation (WoS): 73

Citation (Scopus): 72

H-Index (WoS): 4

H-Index (Scopus): 4

Non Academic Experience

GS ÜNİVERSİTESİ

HAVA HARP OKULU

DOĞUŞ ÜNİVERSİTESİ

BEYKENT ÜNİVERSİTESİ