

Prof. EMRULLAH YAŞAR

Personal Information

Office Phone: [+90 224 294 1768](tel:+902242941768)

Email: eyasar@uludag.edu.tr

Web: <https://avesis.uludag.edu.tr/eyasar>

International Researcher IDs

ScholarID: yMJE0WAAAAAJ

ORCID: 0000-0003-4732-5753

Publons / Web Of Science ResearcherID: AAG-9947-2021

ScopusID: 23471031300

Yoksis Researcher ID: 124688

Biography

He completed his undergraduate education in 2001, his master's degree in 2004 and his doctorate in 2009. He was appointed as Assistant Professor in 2012, Associate Professor in 2014 and full Professor in 2020. He supervised 3 Master's theses and 3 Doctoral Thesis. He is currently continuing his 2 master's and 1 doctorate thesis advisory. His field of work is Analysis of Differential Equations by Lie Symmetry Analysis, Conservation Laws, Integrable Systems and Numerical Analysis of Differential Equations.

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), Turkey 2005 - 2009

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Turkey 1997 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Oluşum türü denklemlerin yerel ve yerel olmayan yeni korunum kanunları, 2009

Postgraduate, Genelleştirilmiş Beltrami denklemleri için sınır-değer problemleri, 2004

Research Areas

Differential Equations

Academic Titles / Tasks

Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2020 - Continues
Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2014 - Continues
Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2011 - Continues

Academic and Administrative Experience

Deputy Head of Department, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2019 - Continues
Head of Department, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2019 - Continues
Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, 2012 - 2015

Courses

GENELLEŞTİRİLMİŞ ANALİTİK FONKSİYONLAR II, Doctorate, 2022 - 2023
MÜHENDİSLİK MATEMATİĞİ, Undergraduate, 2022 - 2023
Uygulamalı Matematiğin Metotları II, Undergraduate, 2022 - 2023
DOKTORA UZMANLIK ALAN DERSİ IX, Doctorate, 2023 - 2024
YÜKSEK LİSANS UZMANLIK ALAN DERSİ II, Postgraduate, 2022 - 2023
DOKTORA UZMANLIK ALAN DERSİ II, Doctorate, 2022 - 2023
DİFERANSİYEL DENKLEMLER, Undergraduate, 2023 - 2024
İLERİ ÖZEL FONKSİYONLAR, Doctorate, 2022 - 2023
TEZ DANIŞMANLIĞI V, Doctorate, 2023 - 2024
TEZ DANIŞMANLIĞI, Doctorate, 2022 - 2023
Applied Mathematics Methods I, Undergraduate, 2022 - 2023
TEZ DANIŞMANLIĞI I, Postgraduate, 2022 - 2023
Olasılık ve İstatistik, Undergraduate, 2022 - 2023
Uygulamalı Matematiğin Metotları II, Undergraduate, 2021 - 2022, 2019 - 2020
Yüksek Lisans Uzmanlık Alan Dersi I, Postgraduate, 2022 - 2023
Lie Groups and Conservation Laws I, Doctorate, 2022 - 2023
Mühendislik Matematiği, Undergraduate, 2021 - 2022
DÖNÜŞÜM GRUPLARI ve LİE CEBİRLERİ II, Postgraduate, 2021 - 2022
LİE GRUPLARI ve KORUNUM KANUNLARI II, Doctorate, 2021 - 2022
Doktora Uzmanlık Alan Dersi, Doctorate, 2022 - 2023
Differential Equations, Undergraduate, 2022 - 2023
KISMİ DİFERANSİYEL DENKLEMLER II, Postgraduate, 2021 - 2022
UYGULAMALI MATEMATİĞİN METODLARI II, Undergraduate, 2021 - 2022
Selected Topics in Partial Differential Equations, Doctorate, 2022 - 2023
İleri Kısmi Diferensiyel Denklemler, Doctorate, 2020 - 2021

Advising Theses

Yaşar E., Lineer olmayan Schrödinger tipi denklemlerin analitik ve yak6 çözümlerinin elde edilmesi, Doctorate, B.Koççasız(Student), 2024
Yaşar E., Oluşum tipi denklemlerin Hirota bilinear formları ve etkileşim çözümleri, Postgraduate, M.ZEYNEL(Student), 2023
Yaşar E., Oluşum tipi kısmi diferansiyel denklemlerin yaklaşık çözümlerinin yüksek başarımlı hesaplama açısından incelenmesi, Postgraduate, N.GÜNHAN(Student), 2021
Yaşar E., Nonlinear partial differential equations and exact solutions, Postgraduate, P.DOĞAN(Student), 2020
Yaşar E., Exact solutions to evolution type nonlinear partial differential equations, Doctorate, Y.YILDIRIM(Student), 2019

YAŞAR E., Symmetry reductions, conservation laws and exact solution of the evolution differential equations, Doctorate, İ.Burak(Student), 2017
YAŞAR E., Oluşum türü diferensiyel denklemlerin simetri indirgemeleri, korunum kanunları ve tam çözümleri, Doctorate, İ.BURAK(Student), 2017
YAŞAR E., First integrals of second order ordinary differential equations, Postgraduate, Y.YILDIRIM(Student), 2015
YAŞAR E., Kısmi diferensiyel denklemlerin korunum kanunları ve indirgemeleri, Doctorate, S.SAN(Student), 2014
YAŞAR E., Symmetry reductions of nonlinear second-order ordinary differential equations, Postgraduate, İ.BURAK(Student), 2013

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Bursa Uludağ Üniversitesi, February, 2024
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Bursa Uludağ Üniversitesi, January, 2024
Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, October, 2022
Associate Professor Exam, Associate Professor Exam, Bursa Uludağ University, March, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **EXACT WAVE SOLUTIONS AND LOCAL CONSERVATION LAWS OF A THIRD-ORDER BOUSSINESQ SYSTEM**
YAŞAR E., YAŞAR E.
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, 2024 (SCI-Expanded)
- II. **On the qualitative behavior and numerical analysis of a calcium oscillation model through Atangana-Baleanu operator in Caputo sense**
YAŞAR E., YAŞAR E.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, 2024 (SCI-Expanded)
- III. **Solitonic structures and chaotic behavior in the geophysical Korteweg-de Vries equation: A μ -symmetry and $\langle i \rangle_g$ -expansion approach**
Kopcasiz B., Yasar E.
MODERN PHYSICS LETTERS B, 2024 (SCI-Expanded)
- IV. **On the comparative study for Klein-Fock-Gordon equation: Fractional exact solutions, bifurcation and sensitivity analysis**
Ay N. G., SAĞLAM ÖZKAN Y., YAŞAR E.
CHINESE JOURNAL OF PHYSICS, vol.89, pp.453-468, 2024 (SCI-Expanded)
- V. **Exploration of interactional phenomena and multi-wave solutions of the fractional-order dual-mode nonlinear Schrödinger equation**
Kopçasız B., YAŞAR E.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.47, no.4, pp.2516-2534, 2024 (SCI-Expanded)
- VI. **THREE EFFICIENT SCHEMES AND HIGHLY DISPERSIVE OPTICAL SOLITONS OF PERTURBED FOKAS-LENELLS EQUATION IN STOCHASTIC FORM**
SAĞLAM ÖZKAN Y., YAŞAR E.
UKRAINIAN JOURNAL OF PHYSICAL OPTICS, no.5, 2024 (SCI-Expanded)
- VII. **Dual-mode nonlinear Schrödinger equation (DMNLSE): Lie group analysis, group invariant solutions, and conservation laws**
Yaşar E., Koçasız B.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.2024, pp.1-26, 2024 (SCI-Expanded)
- VIII. **The residual symmetry, Bäcklund transformations, CRE integrability and interaction solutions:**

(2+1)-dimensional Chaffee–Infante equation

Günhan Ay N., Yaşar E.

COMMUNICATIONS IN THEORETICAL PHYSICS, vol.75, no.11, pp.1-8, 2023 (SCI-Expanded)

- IX. **Multi-wave, breather and interaction solutions to (3+1) dimensional sine-Gordon equation arising in nonlinear physical sciences**
Sağlam Özkan Y., Yaşar E., Masood Khaliq C.
Journal of Computational Science, vol.73, 2023 (SCI-Expanded)
- X. **Adaptation of Caputo residual power series scheme in solving nonlinear time fractional Schrödinger equations**
Kopçasız B., YAŞAR E.
Optik, vol.289, 2023 (SCI-Expanded)
- XI. **Novel dispersive soliton solutions to a fractional nonlinear Schrödinger equation related with ultrashort pulses**
Günhan Ay N., YAŞAR E.
Pramana - Journal of Physics, vol.97, no.3, 2023 (SCI-Expanded)
- XII. **Analytical soliton solutions of the fractional order dual-mode nonlinear Schrödinger equation with time-space conformable sense by some procedures**
Yaşar E., Kopçasız B.
OPTICAL AND QUANTUM ELECTRONICS, vol.55, pp.1-30, 2023 (SCI-Expanded)
- XIII. **Propagation of dark-bright soliton and kink wave solutions of fluidized granular matter model arising in industrial applications**
Sağlam Özkan Y., Yaşar E.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, vol.24, no.2, pp.617-632, 2023 (SCI-Expanded)
- XIV. **Multi wave, kink, breather, interaction solutions and modulation instability to a conformable third order nonlinear Schrödinger equation**
Günhan Ay N., YAŞAR E.
Optical and Quantum Electronics, vol.55, no.4, 2023 (SCI-Expanded)
- XV. **On the Lie symmetry analysis, analytic series solutions, and conservation laws of the time fractional Belousov-Zhabotinskii system**
SAN S., YAŞAR E.
NONLINEAR DYNAMICS, vol.109, no.4, pp.2997-3008, 2022 (SCI-Expanded)
- XVI. **Optical soliton solution analysis for the (2+1) dimensional Kundu-Mukherjee-Naskar model with local fractional derivatives**
SAN S., Seadawy A. R., YAŞAR E.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.7, 2022 (SCI-Expanded)
- XVII. **Highly dispersive optical soliton molecules to dual-mode nonlinear Schrodinger wave equation in cubic law media**
Kopcasiz B., Seadawy A. R., YAŞAR E.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.3, 2022 (SCI-Expanded)
- XVIII. **Novel multiple soliton and front wave solutions for the 3D-Vakhnenko-Parkes equation**
Sağlam Özkan Y., Yaşar E., Osman M. S.
MODERN PHYSICS LETTERS B, vol.36, no.09, 2022 (SCI-Expanded)
- XIX. **A new (3+1) dimensional Hirota bilinear equation: Painlave integrability, Lie symmetry analysis, and conservation laws**
Gunhan Ay N., YAŞAR E.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.16, no.1, pp.1287-1297, 2022 (SCI-Expanded)
- XX. **Breather-type and multi-wave solutions for (2+1)-dimensional nonlocal Gardner equation**
Sağlam Özkan Y., Yaşar E.
APPLIED MATHEMATICS AND COMPUTATION, vol.390, 2021 (SCI-Expanded)
- XXI. **On the optical solitons and local conservation laws of Chen–Lee–Liu dynamical wave equation**

SAĞLAM ÖZKAN Y., Seadawy A. R., YAŞAR E.

Optik, vol.227, 2021 (SCI-Expanded)

- XXII. **A model of solitary waves in a nonlinear elastic circular rod: Abundant different type exact solutions and conservation laws**
Çelik N., Seadawy A. R., Sağlam Özkan Y., Yaşar E.
Chaos, Solitons and Fractals, vol.143, 2021 (SCI-Expanded)
- XXIII. **Multi-wave, breather and interaction solutions to (3+1) dimensional Vakhnenko-Parkes equation arising at propagation of high-frequency waves in a relaxing medium**
Ozkan Y., Seadawy A. R., YAŞAR E.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.15, no.1, pp.666-678, 2021 (SCI-Expanded)
- XXIV. **Multiwave and interaction solutions and Lie symmetry analysis to a new (2 + 1)-dimensional Sakovich equation**
SAĞLAM ÖZKAN Y., YAŞAR E.
Alexandria Engineering Journal, vol.59, pp.5285-5293, 2020 (SCI-Expanded)
- XXV. **On the multi-waves, interaction and Peregrine-like rational solutions of perturbed Radhakrishnan-Kundu-Lakshmanan equation**
SAĞLAM ÖZKAN Y., YAŞAR E., Seadawy A. R.
PHYSICA SCRIPTA, vol.95, no.8, 2020 (SCI-Expanded)
- XXVI. **On the exact solutions of nonlinear evolution equations by the improved tan($\phi/2$)-expansion method**
SAĞLAM ÖZKAN Y., YAŞAR E.
PRAMANA-JOURNAL OF PHYSICS, vol.94, no.1, 2020 (SCI-Expanded)
- XXVII. **A third-order nonlinear Schrodinger equation: the exact solutions, group-invariant solutions and conservation laws**
SAĞLAM ÖZKAN Y., YAŞAR E., Seadawy A. R.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.14, no.1, pp.585-597, 2020 (SCI-Expanded)
- XXVIII. **The Logarithmic (1+1)-Dimensional KdV-Like and (2+1)-Dimensional KP-Like Equations: Lie Group Analysis, Conservation Laws and Double Reductions**
Giresunlu I. B., YAŞAR E., Adem A. R.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, vol.20, pp.747-755, 2019 (SCI-Expanded)
- XXIX. **Extended Transformed Rational Function Method to Nonlinear Evolution Equations**
YAŞAR E., Yildirim Y., Adem A. R.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, vol.20, no.6, pp.691-701, 2019 (SCI-Expanded)
- XXX. **Optical soliton perturbation in parabolic law medium having weak non-local nonlinearity by a couple of strategic integration architectures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Belic M.
RESULTS IN PHYSICS, vol.13, 2019 (SCI-Expanded)
- XXXI. **Resonant optical soliton perturbation with full nonlinearity and time-dependent coefficients by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moraru L., Alshomrani A. S., Belic M. R.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.21, pp.213-221, 2019 (SCI-Expanded)
- XXXII. **Complexiton solutions and soliton solutions: -dimensional Date-Jimbo-Kashiwara-Miwa equation**
Adem A. R., Yildirim Y., YAŞAR E.
PRAMANA-JOURNAL OF PHYSICS, vol.92, no.3, 2019 (SCI-Expanded)
- XXXIII. **Soliton solutions to the non-local Boussinesq equation by multiple exp-function scheme and extended Kudryashov's approach**
Adem A. R., Yildirim Y., YAŞAR E.
PRAMANA-JOURNAL OF PHYSICS, vol.92, no.2, 2019 (SCI-Expanded)
- XXXIV. **Optical solitons in birefringent fibers with weak non-local nonlinearity using two forms of**

integration architecture

Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Alfiras M., Belic M.
OPTIK, vol.178, pp.669-680, 2019 (SCI-Expanded)

- XXXV. **Optical soliton molecules in birefringent fibers having weak non-local nonlinearity and four-wave mixing with a couple of strategic integration architectures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Khan S., Adesanya S., Moshokoa S. P., Belic M.
OPTIK, vol.179, pp.927-940, 2019 (SCI-Expanded)
- XXXVI. **Optical soliton perturbation with quadratic-cubic nonlinearity using a couple of strategic algorithms**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
CHINESE JOURNAL OF PHYSICS, vol.56, no.5, pp.1990-1998, 2018 (SCI-Expanded)
- XXXVII. **Optical soliton perturbation with full nonlinearity in polarization preserving fibers using trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Belic M.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.20, pp.385-402, 2018 (SCI-Expanded)
- XXXVIII. **New optical solitons of space-time conformable fractional perturbed Gerdjikov-Ivanov equation by sine-Gordon equation method**
YAŞAR E., Yildirim Y., YAŞAR E.
RESULTS IN PHYSICS, vol.9, pp.1666-1672, 2018 (SCI-Expanded)
- XXXIX. **Conservation laws for perturbed solitons in optical metamaterials**
Biswas A., YAŞAR E., Yildirim Y., Triki H., Zhou Q., Moshokoa S. P., Belic M.
RESULTS IN PHYSICS, vol.8, pp.898-902, 2018 (SCI-Expanded)
- XL. **Solitons for perturbed Gerdjikov-Ivanov equation in optical fibers and PCF by extended Kudryashov's method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
OPTICAL AND QUANTUM ELECTRONICS, vol.50, no.3, 2018 (SCI-Expanded)
- XLI. **A (2+1)-dimensional breaking soliton equation: Solutions and conservation laws**
Yildirim Y., YAŞAR E.
CHAOS SOLITONS & FRACTALS, vol.107, pp.146-155, 2018 (SCI-Expanded)
- XLII. **Optical soliton perturbation with full nonlinearity by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.157, pp.1366-1375, 2018 (SCI-Expanded)
- XLIII. **Sub pico-second pulses in mono-mode optical fibers with Kaup-Newell equation by a couple of integration schemes**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.167, pp.121-128, 2018 (SCI-Expanded)
- XLIV. **Optical soliton solutions to Fokas-lenells equation using some different methods**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.173, pp.21-31, 2018 (SCI-Expanded)
- XLV. **Optical solitons for Lakshmanan-Porsezian-Daniel model with dual-dispersion by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Alqahtani R. T.
OPTIK, vol.168, pp.432-439, 2018 (SCI-Expanded)
- XLVI. **Optical solitons for Lakshmanan-Porsezian-Daniel model by modified simple equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.160, pp.24-32, 2018 (SCI-Expanded)
- XLVII. **Optical solitons with differential group delay for coupled Fokas-Lenells equation using two integration schemes**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Mahmood M. F., Moshokoa S. P., Belic M.
OPTIK, vol.165, pp.74-86, 2018 (SCI-Expanded)
- XLVIII. **Optical soliton perturbation with full nonlinearity for Kundu-Eckhaus equation by modified simple equation method**

- Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.157, pp.1376-1380, 2018 (SCI-Expanded)
- XLIX. **Optical soliton perturbation with Gerdjikov-Ivanov equation by modified simple equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.157, pp.1235-1240, 2018 (SCI-Expanded)
- L. **Perturbed optical solitons with spatio-temporal dispersion in (2+1) -dimensions by extended Kudryashov method**
YAŞAR E., Yildirim Y., Adem A. R.
OPTIK, vol.158, pp.1-14, 2018 (SCI-Expanded)
- LI. **Optical soliton perturbation with complex Ginzburg-Landau equation using trial solution approach**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.160, pp.44-60, 2018 (SCI-Expanded)
- LII. **Optical solitons with differential group delay and four-wave mixing using two integration procedures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.167, pp.170-188, 2018 (SCI-Expanded)
- LIII. **Optical soliton perturbation for Radhakrishnan-Kundu-Lakshmanan equation with a couple of integration schemes**
Biswas A., Yildirim Y., YAŞAR E., Mahmood M. F., Alshomrani A. S., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.163, pp.126-136, 2018 (SCI-Expanded)
- LIV. **Optical solitons and conservation law of Kundu-Eckhaus equation**
Mirzazadeh M., Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Seadawy A. R., Biswas A., Belic M.
OPTIK, vol.154, pp.551-557, 2018 (SCI-Expanded)
- LV. **Optical solitons with differential group delay by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.160, pp.116-123, 2018 (SCI-Expanded)
- LVI. **LIE SYMMETRY ANALYSIS AND EXACT SOLUTIONS TO N-COUPLED NONLINEAR SCHRÖDINGER'S EQUATIONS WITH KERR AND PARABOLIC LAW NONLINEARITIES**
Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Biswas A., Belic M.
ROMANIAN JOURNAL OF PHYSICS, vol.63, 2018 (SCI-Expanded)
- LVII. **Dispersive optical solitons with differential group delay by a couple of integration schemes**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
OPTIK, vol.162, pp.108-120, 2018 (SCI-Expanded)
- LVIII. **Optical soliton perturbation for complex Ginzburg-Landau equation with modified simple equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.158, pp.399-415, 2018 (SCI-Expanded)
- LIX. **Optical soliton perturbation with full nonlinearity for Gerdjikov-Ivanov equation by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.157, pp.1214-1218, 2018 (SCI-Expanded)
- LX. **Dispersive optical solitons with Schrodinger-Hirota model by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
OPTIK, vol.162, pp.35-41, 2018 (SCI-Expanded)
- LXI. **Optical soliton perturbation with resonant nonlinear Schrodinger's equation having full nonlinearity by modified simple equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, vol.160, pp.33-43, 2018 (SCI-Expanded)
- LXII. **Perturbed dark and singular optical solitons in polarization preserving fibers by modified simple equation method**
YAŞAR E., Yildirim Y., Zhou Q., Moshokoa S. P., Ullah M. Z., Triki H., Biswas A., Belic M.

- SUPERLATTICES AND MICROSTRUCTURES, vol.111, pp.487-498, 2017 (SCI-Expanded)
- LXIII. **An extended Korteweg-de Vries equation: multi-soliton solutions and conservation laws**
Yildirim Y., YAŞAR E.
NONLINEAR DYNAMICS, vol.90, no.3, pp.1571-1579, 2017 (SCI-Expanded)
- LXIV. **A multiple exp-function method for the three model equations of shallow water waves**
Yildirim Y., YAŞAR E., Adem A. R.
NONLINEAR DYNAMICS, vol.89, no.3, pp.2291-2297, 2017 (SCI-Expanded)
- LXV. **Multiple exp-function method for soliton solutions of nonlinear evolution equations**
Yildirim Y., YAŞAR E.
CHINESE PHYSICS B, vol.26, no.7, 2017 (SCI-Expanded)
- LXVI. **Conservation laws for Gerdjikov-Ivanov equation in nonlinear fiber optics and PCF**
Biswas A., Yildirim Y., YAŞAR E., Babatin M. M.
OPTIK, vol.148, pp.209-214, 2017 (SCI-Expanded)
- LXVII. **Nonlinear Schrodinger equations with spatio-temporal dispersion in Kerr, parabolic, power and dual power law media: A novel extended Kudryashov's algorithm and soliton solutions**
Yildirim Y., ÇELİK N., YAŞAR E.
RESULTS IN PHYSICS, vol.7, pp.3116-3123, 2017 (SCI-Expanded)
- LXVIII. **On the Conservation Laws of Modified KdV-KP Equation**
YAŞAR E., SAN S.
FILOMAT, vol.31, no.6, pp.1483-1490, 2017 (SCI-Expanded)
- LXIX. **The $(G'/G, 1/G)$ -expansion method for solving nonlinear space-time fractional differential equations**
YAŞAR E., Giresunlu I. B.
PRAMANA-JOURNAL OF PHYSICS, vol.87, no.2, 2016 (SCI-Expanded)
- LXX. **First integrals and analytical solutions of the nonlinear fin problem with temperature-dependent thermal conductivity and heat transfer coefficient**
YAŞAR E., Yildirim Y., Giresunlu I. B.
PRAMANA-JOURNAL OF PHYSICS, vol.87, no.2, 2016 (SCI-Expanded)
- LXXI. **A Procedure to Construct Conservation Laws of Nonlinear Evolution Equations**
YAŞAR E., SAN S.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.71, no.5, pp.475-480, 2016 (SCI-Expanded)
- LXXII. **Nonlinear self adjointness, conservation laws and exact solutions of ill-posed Boussinesq equation**
YAŞAR E., SAN S., SAĞLAM ÖZKAN Y.
OPEN PHYSICS, vol.14, no.1, pp.37-43, 2016 (SCI-Expanded)
- LXXIII. **Lie symmetry analysis, conservation laws and exact solutions of the seventh-order time fractional Sawada-Kotera-Ito equation**
YAŞAR E., Yildirim Y., Khalique C. M.
RESULTS IN PHYSICS, vol.6, pp.322-328, 2016 (SCI-Expanded)
- LXXIV. **A procedure on the first integrals of second-order nonlinear ordinary differential equations**
YAŞAR E., Yildirim Y.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.130, no.12, 2015 (SCI-Expanded)
- LXXV. **Conservation Laws and Soliton Solutions of the $(1+1)$ -Dimensional Modified Improved Boussinesq Equation**
GÜNER Ö., SAN S., BEKİR A., YAŞAR E.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.70, no.8, pp.669-672, 2015 (SCI-Expanded)
- LXXVI. **On the conservation laws of Derrida-Lebowitz-Speer-Spohn equation**
SAN S., YAŞAR E.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.22, pp.1297-1304, 2015 (SCI-Expanded)
- LXXVII. **On the Conservation Laws and Exact Solutions of a Modified Hunter-Saxton Equation**

SAN S., YAŞAR E.

ADVANCES IN MATHEMATICAL PHYSICS, vol.2014, 2014 (SCI-Expanded)

LXXVIII. **A Short Note on Nonlocal Transformations and First Integrals for Certain Nonlinear Oscillator Equations**

Yasar E.

ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

LXXXIX. **Advances in Lie Groups and Applications in Applied Sciences**

Özer T., Cheviakov A. F., Shi Weichen S. W., Migranov N., Sekhar T. R., YAŞAR E.

ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

LXXX. **lambda-symmetries, nonlocal transformations and first integrals to a class of Painleve-Gambier equations**

Yasar E.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.35, no.6, pp.684-692, 2012 (SCI-Expanded)

LXXXI. **Group properties and conservation laws for nonlocal shallow water wave equation**

Rezvan F., YAŞAR E., Özer T.

APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.3, pp.974-979, 2011 (SCI-Expanded)

LXXXII. **On symmetries, conservation laws and invariant solutions of the foam-drainage equation**

YAŞAR E., Özer T.

INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, vol.46, no.2, pp.357-362, 2011 (SCI-Expanded)

LXXXIII. **Integrating Factors and First Integrals for Lienard Type and Frequency-Damped Oscillators**

Yasar E.

MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2011, 2011 (SCI-Expanded)

LXXXIV. **Conservation laws for a class of soil water equations**

Yasar E.

COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.15, no.10, pp.3193-3200, 2010 (SCI-Expanded)

LXXXV. **New travelling wave solutions to the Ostrovsky equation**

Yasar E.

APPLIED MATHEMATICS AND COMPUTATION, vol.216, no.11, pp.3191-3194, 2010 (SCI-Expanded)

LXXXVI. **Application of the Jacobi method and integrating factors to a class of Painleve-Gambier equations**

YAŞAR E., REİS M.

JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.43, no.29, 2010 (SCI-Expanded)

LXXXVII. **Invariant solutions and conservation laws to nonconservative FP equation**

YAŞAR E., Özer T.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.59, no.9, pp.3203-3210, 2010 (SCI-Expanded)

LXXXVIII. **Conservation laws for one-layer shallow water wave systems**

YAŞAR E., Özer T.

NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, vol.11, no.2, pp.838-848, 2010 (SCI-Expanded)

LXXXIX. **On the conservation laws and invariant solutions of the mKdV equation**

Yasar E.

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.363, no.1, pp.174-181, 2010 (SCI-Expanded)

XC. **Variational principles and conservation laws to the Burridge-Knopoff equation**

Yasar E.

NONLINEAR DYNAMICS, vol.54, no.4, pp.307-312, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **Analytical solutions and physical interpretation of a predator-prey system with Allee effect using fractional derivative operators**

Günhan Ay N., YAŞAR E.

Partial Differential Equations in Applied Mathematics, vol.11, 2024 (Scopus)

- II. **Investigation of Bifurcation Analysis and Soliton Solutions to the Longitudinal Wave Equation in a Magneto-Electro-Elastic Circular Rod**
Çelik N., Yaşar E.
Journal of Applied Nonlinear Dynamics, vol.12, no.4, pp.767-780, 2023 (ESCI)
- III. **On Exact Solutions of Magneto-Electro-Elastic Rods Equation**
Çelik N., Yaşar E.
International Journal of Applied and Computational Mathematics, vol.9, no.5, 2023 (Scopus)
- IV. **The investigation of unique optical soliton solutions for dual-mode nonlinear Schrödinger's equation with new mechanisms**
Kopçasız B., YAŞAR E.
Journal of Optics (India), vol.52, no.3, pp.1513-1527, 2023 (ESCI)
- V. **Novel multi-wave solutions for the fractional order dual-mode nonlinear Schrödinger equation**
Yaşar E., Kopçasız B.
Annals of Mathematics and Computer Science, vol.16, pp.100-111, 2023 (Peer-Reviewed Journal)
- VI. **μ -Symmetries and μ -Conservation Laws for The Nonlinear Dispersive Modified Benjamin-Bona-Mahony Equation**
Yaşar E., Kopçasız B.
Journal of mathematical sciences and modelling (Online), vol.6, no.3, pp.87-96, 2023 (Peer-Reviewed Journal)
- VII. **Group invariant solutions and local conservation laws of heat conduction equation arising laser heating carbon nanotubes using Lie group analysis**
Yaşar E., Yıldırım Y.
Mathematical Sciences and Applications E-Notes, vol.10, no.2, pp.102-113, 2022 (Peer-Reviewed Journal)
- VIII. **On the exact and numerical solutions to a new $(2 + 1)$ -dimensional Korteweg-de Vries equation with conformable derivative**
Sağlam Özkan Y., Yaşar E., Çelik N.
Nonlinear Engineering, vol.10, no.1, pp.46-65, 2021 (ESCI)
- IX. **LUMP-TYPE SOLUTIONS OF A NEW EXTENDED $(3+1)$ -DIMENSIONAL NONLINEAR EVOLUTION EQUATION**
Yıldırım Y., YAŞAR E.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.70, no.1, pp.382-396, 2021 (ESCI)
- X. **Optical soliton solutions to a $(2+1)$ dimensional Schrödinger equation using a couple of integration architectures**
Doğan Çankal P., Yaşar E.
Applied Mathematics and Nonlinear Sciences, vol.6, no.1, pp.381-396, 2021 (ESCI)
- XI. **Algebraic Traveling Wave Solutions to Nonlinear Evolution Equations**
Yıldırım Y., YAŞAR E.
Journal of Applied Nonlinear Dynamics, vol.8, no.4, pp.557-567, 2019 (Scopus)
- XII. **A Novel Scheme for Nonlinear Evolution Equations Using Symbolic Computations**
Yıldırım Y., YAŞAR E., Adem A. R., YAŞAR E.
Journal of Applied Nonlinear Dynamics, vol.8, no.3, pp.463-473, 2019 (Scopus)
- XIII. **On the Lie symmetry analysis and traveling wave solutions of time fractional fifth-order modified Sawada-Kotera equation**
YAŞAR E., Yıldırım Y.
Karaelmas Science and Engineering Journal, 2018 (Peer-Reviewed Journal)
- XIV. **Optical solitons of conformable space-time fractional NLSE with Spatio-temporal dispersion**
YAŞAR E., YAŞAR E.
New Trends in Mathematical Science, vol.3, no.6, pp.116-127, 2018 (Peer-Reviewed Journal)
- XV. **WRONSKIAN SOLUTIONS OF $(2+1)$ DIMENSIONAL NON-LOCAL ITO EQUATION**
Yıldırım Y., YAŞAR E.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,
vol.67, no.2, pp.126-138, 2018 (ESCI)

- XVI. **Symmetry Reductions, Exact Solutions and Conservation Laws for the Coupled Nonlinear Klein-Gordon System**
YAŞAR E., GİRESUNLU İ. B.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, 2017 (Peer-Reviewed Journal)
- XVII. **First integrals and exact solutions for path equation describing minimum drag work**
YAŞAR E., GİRESUNLU İ. B.
International Journal of Advances in Applied Mathematics and Mechanics, 2015 (Peer-Reviewed Journal)
- XVIII. **On the conservation laws and traveling wave solutions to the BBM equation**
YAŞAR E., ÖZER T.
Journal of Interdisciplinary Mathematics, vol.13, no.1, pp.77-86, 2010 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Lie Symmetry Analysis and Conservation Laws of Time Fractional Predator-Prey Model**
Günhan N., Yaşar E.
8th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 9 - 11 July 2024, pp.1-10
- II. **Exact Solutions of Fractional Predator-Prey Model via Extended Modified Sub-Equation Method**
Günhan N., Yaşar E.
8th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 9 July - 11 August 2024, pp.1-16
- III. **On the integrability properties of extended (31) dimensional Jimbo-Miwa equation**
YAŞAR E., Yıldırım Y.
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, İstanbul, Turkey, 10 - 12 May 2017, pp.233
- IV. **Multiple soliton solutions of (31) dimensional Jimbo-Miwa equations**
YAŞAR E., Yıldırım Y.
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING, 10 - 12 May 2017, pp.174
- V. **Application of Multiple Exp-Function Method to Nonlinear Evolution Equations**
YAŞAR E., Yıldırım Y.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 - 29 April 2017, pp.136
- VI. **On the Lie Symmetry Analysis and Group Invariant Solutions of Some Logarithmic Evolution Equations**
GİRESUNLU İ. B., YAŞAR E., Adem A. R.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, Ankara, Turkey, 27 - 29 April 2017
- VII. **On The Solutions and Conservation Laws of (2+1)-Dimensional Breaking Soliton Equation**
YAŞAR E., Yıldırım Y.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 - 29 April 2017
- VIII. **Exact Solutions Lie Symmetry Analysis and Conservation Laws of Shamel Korteweg de Vries Equation by Using Some Methods**
SAĞLAM ÖZKAN Y., GİRESUNLU İ. B., YAŞAR E.
7th European Congress of Mathematics (7ECM in Berlin), Berlin, Germany, 18 - 22 July 2016, pp.489
- IX. **Nonlinear self adjointness of some nonlinear evolution equations**
SAN S., YAŞAR E.
International Conference on Quantum Science and Applications, 25 - 27 May 2016
- X. **Exact Traveling wave solutions of Konopelchenko Dubrovsky system by using G/G-1/G expansion method**

GİRESUNLU İ. B., YAŞAR E.

International Conference on Quantum Science and Applications, 25 - 27 May 2016

XI. Exact Solutions of Nonlinear Space Time Fractional Differential Equations Using G G 1 G Expansion Method

YAŞAR E., Giresunlu I. B.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 8 - 12 June 2015

XII. Nonlinear Self Adjointness Conservation Laws and Exact Solutions for Ill Posed Boussinesq Equation
SAĞLAM ÖZKAN Y., SAN S., YAŞAR E.

INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 8 - 12 June 2015

XIII. Nonlinear self adjointness conservation laws and exact solutions for ill posed Boussinesq equation
SAĞLAM ÖZKAN Y., SAN S., YAŞAR E.

International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 8 - 12 June 2015

XIV. Application of the Composite Variational Principle to Shallow Water Equations

YAŞAR E., Özer T.

2nd Conference on Nonlinear Science and Complexity (NSC'08), Porto, Portugal, 28 - 31 July 2008, pp.73-78

Supported Projects

YAŞAR E., GÜNHAN AY N., Project Supported by Higher Education Institutions, Doğadaki Denge: Lineer Olmayan Kesir Türevli Difüzyon Avcı-Av Sisteminin İntegrallenebilirliği ve Yeni Tam Çözümleri, 2023 - 2024

Yaşar E., Project Supported by Higher Education Institutions, Karbon nanotüplerin kanser tümörlerinin tedavisi üzerine bir matematiksel modeli ve analitik çözümleri, 2019 - 2022

Yaşar E., Project Supported by Higher Education Institutions, Kısmi Diferensiyel Denklemlerin Korunum Kanunları ve İndirgemeleri, 2013 - 2015

Activities in Scientific Journals

Research and Communications in Mathematics and Mathematical Sciences, Committee Member, 2016 - Continues
FRONTIERS IN PHYSICS, Special Issue Editor, 2022 - 2022

Scientific Refereeing

INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, SCI Journal, May 2024

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, SCI Journal, May 2024

Partial Differential Equations in Applied Mathematics, Other Indexed Journal, May 2024

COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, Journal Indexed in ESCI, April 2024

Arab Journal of Basic and Applied Sciences, Journal Indexed in ESCI, April 2024

MODERN PHYSICS LETTERS B, SCI Journal, March 2024

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, SCI Journal, March 2024

PHYSICA SCRIPTA, SCI Journal, March 2024

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, February 2024

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, February 2024

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, February 2024

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, December 2023

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, December 2023

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, November 2023

INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, SCI Journal, November 2023

Partial Differential Equations in Applied Mathematics, Other Indexed Journal, November 2023

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, August 2023
OPTIK, SCI Journal, April 2023
Results in Physics, SCI Journal, April 2023
Results in Physics, SCI Journal, April 2023
OPTIK, SCI Journal, April 2023
Project Supported by Higher Education Institutions, BAP Research Project, Istanbul Technical University, Turkey, April 2023
Results in Physics, SCI Journal, March 2023
Results in Physics, SCI Journal, March 2023
OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, March 2023
HELIYON, SCI Journal, February 2023
Results in Physics, SCI Journal, February 2023
AIN SHAMS ENGINEERING JOURNAL, SCI Journal, February 2023
OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, February 2023
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, SCI Journal, January 2023
HELIYON, SCI Journal, January 2023
Results in Physics, SCI Journal, November 2022
HELIYON, SCI Journal, November 2022
HELIYON, SCI Journal, November 2022
WAVES IN RANDOM AND COMPLEX MEDIA, SCI Journal, November 2022
Results in Physics, SCI Journal, October 2022
PRAMANA - JOURNAL OF PHYSICS, SCI Journal, October 2022
HELIYON, SCI Journal, October 2022
Results in Physics, SCI Journal, September 2022
JOURNAL OF NONLINEAR OPTICAL PHYSICS AND MATERIALS, SCI Journal, August 2022
Partial Differential Equations in Applied Mathematics , Other journals, July 2022
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, SCI Journal, July 2022
JOURNAL OF OPTICS (INDIA), Journal Indexed in ESCI, June 2022
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, SCI Journal, June 2022
JOURNAL OF OCEAN ENGINEERING AND SCIENCE, SCI Journal, June 2022
Results in Physics, SCI Journal, May 2022
Results in Physics, SCI Journal, April 2022
Results in Physics, SCI Journal, March 2022
MATHEMATICAL PROBLEMS IN ENGINEERING, SCI Journal, March 2022
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, SCI Journal, February 2022
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, SCI Journal, January 2022
Results in Physics, SCI Journal, January 2022

Metrics

Publication: 132

Citation (WoS): 2864

Citation (Scopus): 2939

H-Index (WoS): 29

H-Index (Scopus): 30