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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Matematik Mühendisliği Bölümü, Türkiye 2013 - 2019

Yüksek Lisans, Balıkesir Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Türkiye 2011 - 2013

Lisans, Afyon Kocatepe Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2007 - 2011

Yaptığı Tezler

Doktora, Kısmi Diferansiyel Denklemlerin Nümerik Çözümleri için Gegenbauer Dalgacık Galerkin Yöntemi, Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Matematik Mühendisliği Bölümü, 2019

Yüksek Lisans, Kompleks Bölgelerde Tanımlı Fonksiyon Uzaylarında Yaklaşım Problemleri, Balıkesir Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2013

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, İstanbul Gelişim Üniversitesi, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, YAZILIM MÜHENDİSLİĞİ , 2021 - Devam Ediyor

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Matematik Mühendisliği Bölümü, 2013 - 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Bright soliton of the third-order nonlinear Schrödinger equation with power law of self-phase modulation in the absence of chromatic dispersion**
Durmus S. A., ÖZDEMİR N., SEÇER A., ÖZİŞİK M., BAYRAM M.
Optical and Quantum Electronics, cilt.56, sa.5, 2024 (SCI-Expanded)
- II. **Nonlinear complex generalized zakharov dynamical system inconformal sense utilizing new kudryashov method**
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Physica Scripta, cilt.99, sa.2, 2024 (SCI-Expanded)
- III. **Revealing optical soliton solutions of Schrödinger equation having parabolic law and anti-cubic law with weakly nonlocal nonlinearity**
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- IV. **Bright soliton of Stochastic perturbed Biswas-Milovic equation with cubic-quintic-septic law having multiplicative white noise**
ÖZDEMİR N., Altun S., ÖZİŞİK M., SEÇER A., BAYRAM M.
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- V. **Investigation of soliton solutions to the Peyrard-Bishop-Deoxyribo-Nucleic-Acid dynamic model with beta-derivative**
SEÇER A., ÖZİŞİK M., BAYRAM M., ÖZDEMİR N., ÇINAR M.
Modern Physics Letters B, 2024 (SCI-Expanded)
- VI. **Bright soliton of the perturbed Schrödinger–Hirota equation with cubic–quintic–septic law of self-phase modulation in the presence of spatiotemporal dispersion**
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European Physical Journal Plus, cilt.139, sa.1, 2024 (SCI-Expanded)
- VII. **Optical soliton solutions of the nonlinear Schrödinger equation in the presence of chromatic dispersion with cubic-quintic-septic-nonic nonlinearities**
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- VIII. **On the soliton solutions to the density-dependent space time fractional reaction–diffusion equation with conformable and M-truncated derivatives**
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Optical and Quantum Electronics, cilt.55, sa.10, 2023 (SCI-Expanded)
- IX. **Soliton solutions of Heisenberg spin chain equation with parabolic law nonlinearity**
Altun S., ÖZDEMİR N., ÖZİŞİK M., SEÇER A., BAYRAM M.
Optical and Quantum Electronics, cilt.55, sa.8, 2023 (SCI-Expanded)
- X. **Optical solitons for the Biswas-Milovic equation with anti-cubic law nonlinearity in the presence of spatio-temporal dispersion**
Ozdemir N.
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- XI. **Optical solitons for the dispersive Schrödinger–Hirota equation in the presence of spatio-temporal dispersion with parabolic law**
ÖZDEMİR N., SEÇER A., ÖZİŞİK M., BAYRAM M.
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- XII. **Extraction of soliton waves from the longitudinal wave equation with local M-truncated derivatives**
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- XIII. **Investigation of optical soliton solutions of higher-order nonlinear Schrödinger equation having Kudryashov nonlinear refractive index**
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- XIV. **On the investigation of optical soliton solutions of cubic–quartic Fokas–Lenells and Schrödinger–Hirota equations**
Özışık M., Önder İ., Esen H., Çınar M., Ozdemir N., Seçer A., Bayram M.
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- XV. **Obtaining the soliton solutions of local M-fractional magneto-electro-elastic media**
Ozdemir N., Seçer A., Özışık M., Bayram M.
Heliyon, cilt.9, sa.1, 2023 (SCI-Expanded)
- XVI. **Soliton and other solutions of the (2+1)-dimensional Date-Jimbo-Kashiwara-Miwa equation with conformable derivative**
Ozdemir N., Seçer A., Özışık M., Bayram M.
Physica Scripta, cilt.98, sa.1, 2023 (SCI-Expanded)
- XVII. **Optical solitons for Radhakrishnan–Kundu–Lakshmanan equation in the presence of perturbation term and having Kerr law**

- Ozdemir N.
Optik, cilt.271, 2022 (SCI-Expanded)
- XVIII. **Two Analytical Schemes for the Optical Soliton Solution of the (2 + 1) Hirota–Maccari System Observed in Single-Mode Fibers**
Ozdemir N., Secer A., Ozisik M., Bayram M.
UNIVERSE, cilt.8, sa.11, ss.1-12, 2022 (SCI-Expanded)
- XIX. **Perturbation of dispersive optical solitons with Schrödinger–Hirota equation with Kerr law and spatio-temporal dispersion**
Ozdemir N., Seçer A., Özışık M., Bayram M.
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- XX. **Novel soliton solutions of Sasa-Satsuma model with local derivative via an analytical technique**
Ozdemir N., Esen H., Seçer A., Bayram M.
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- XXI. **Optical solitons and other solutions to the Hirota-Maccari system with conformable, M-truncated and beta derivatives**
Ozdemir N., Esen H., Seçer A., Bayram M., Yusuf A., Sulaiman T. A.
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- XXII. **On solitary wave solutions for the perturbed Chen–Lee–Liu equation via an analytical approach**
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- XXIII. **Optical Soliton Solutions to Chen Lee Liu model by the modified extended tanh expansion scheme**
Ozdemir N., ESEN H., SEÇER A., Bayram M., Yusuf A., Sulaiman T. A.
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- XXIV. **An algorithm for numerical solution of some nonlinear multi-dimensional parabolic partial differential equations[Formula presented]**
Ozdemir N., Seçer A., Bayram M.
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- XXV. **Solitary wave solutions of chiral nonlinear Schrödinger equations**
Esen H., Ozdemir N., Seçer A., Bayram M., Sulaiman T. A., Yusuf A.
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- XXVI. **Optical solitons and other solutions to the Radhakrishnan-Kundu-Lakshmanan equation**
Ozdemir N., ESEN H., SEÇER A., Bayram M., Sulaiman T. A., Yusuf A., Aydin H.
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- XXVII. **An effective computational approach based on Gegenbauer wavelets for solving the time-fractional Kdv-Burgers-Kuramoto equation**
SEÇER A., Ozdemir N.
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- XXVIII. **The Gegenbauer wavelets-based computational methods for the coupled system of Burgers' equations with time-fractional derivative**
Ozdemir N., SEÇER A., BAYRAM M.
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- XXIX. **Modified laguerre wavelet based galerkin method for fractional and fractional-order delay differential equations**
SEÇER A., Ozdemir N.
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- XXX. **A hermite polynomial approach for solving the SIR model of epidemics**
SEÇER A., Ozdemir N., BAYRAM M.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Traveling wave structures of some fourth-order nonlinear partial differential equations**
Esen H., Ozdemir N., Seer A., Bayram M.
Journal of Ocean Engineering and Science, cilt.8, sa.2, ss.124-132, 2023 (Scopus)
- II. **M-truncated soliton solutions of the fractional (4+1)-dimensional Fokas equation**
Özdemir N.
International Journal of Optimization and Control: Theories and Applications, cilt.13, sa.1, ss.123-129, 2023 (ESCI)
- III. **Wavelet-based Numerical Approaches for Solving the Korteweg-de Vries (KdV) Equation**
Özdemir N., Seer A.
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- IV. **A NUMERICAL ALGORITHM BASED ON ULTRASPHERICAL WAVELETS FOR SOLUTION OF LINEAR AND NONLINEAR KLEIN-GORDON EQUATIONS**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Reveal of optical pulse envelop of the perturbed Schrödinger-Hirota equation with anti-cubic law nonlinearity**
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- II. **On optical soliton solution of the nonlinear Schrödinger's equation having Quadrupled Power-Law Non- linearity**
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- III. **Bright soliton structure of perturbed Schrödinger- Hirota equation with cubic-quintic-septic law of self-phase modulation**
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International Conference on Nonlinear Science and Complexity, İstanbul, Türkiye, 10 - 15 Temmuz 2023, ss.103
- IV. **Investigation of optical soliton solutions of higher order nonlinear Schrödinger equations with Kudryashov nonlinear refractive index**
ÇINAR M., ÖNDER İ., ÖZDEMİR N., ESEN H., ÖZİŞİK M., SEÇER A., BAYRAM M.
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- V. **Soliton Solutions of the Boiti-Leon-Manna-Pempinelli Equation**
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- VI. **Optical soliton solutions of nonlinear Schrödinger-Hirota model involving nonlinear chromatic dispersion**
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- VII. **An investigation of the DNA Peyrard-Bishop equation with beta-derivative**
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- VIII. **An investigation on nonlinear higher order Schrödinger equation having refractive indices and chromatic dispersion**

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- IX. **Study on the Mikhailov-Novikov-Wang equation to Find the Exact Soliton Solutions**
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- X. **Numerical schemes based on Legendre wavelets for Solving Nonlinear Partial Differential Equations**
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- XI. **On the Approximation of Partial Differential Equations using the Three-Step Wavelet Galerkin Method**
ÖZDEMİR N., SEÇER A.
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- XII. **Approximate Solutions of Linear and Nonlinear Klein-Gordon Equations**
SEÇER A., ÖZDEMİR N.
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- XIII. **Numerical Approaches for solving the Coupled System of Burgers' Equations with Time-Fractional Derivative using Gegenbauer wavelets**
ÖZDEMİR N., SEÇER A., BAYRAM M.
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- XIV. **An Efficient Legendre Wavelet-Galerkin Based Approximation for the One-Dimensional Heat Equation**
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- XV. **Wavelets Galerkin Method for the Kdv-Burgers- Kuramoto Equation**
ÖZDEMİR N., SEÇER A.
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- XVI. **Solution of the epidemic model by Hermite collocation method**
SEÇER A., ÖZDEMİR N.
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- XVII. **Galerkin analysis for Fractional Delay Differential Equations by Modified Laguerre wavelets**
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7th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Türkiye, 20 - 24 Haziran 2018, ss.167
- XVIII. **Three-Step Wavelet Galerkin Method for Numerical solutions of PDEs Using Daubechies Wavelets**
ÖZDEMİR N., SEÇER A.
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- XIX. **A Numerical Study for Fisher's equation by three step wavelet Galerkin method**
ÖZDEMİR N., SEÇER A., BAYRAM M.
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- XX. **Generalized polynomial chaos approaches for stochastic system of equations**
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XXI. Analysis of chaotic behaviours of random dynamical systems

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