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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik Mühendisliği, Turkey 1997 - 2003

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik Mühendisliği, Turkey 1994 - 1997

Postgraduate, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, Turkey 1992 - 1994

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, Turkey 1988 - 1992

Foreign Languages

English, B1 Intermediate

Research Areas

Mechanics of Solid Bodies, Mechanical, Mathematics, Differential Equations, Differential Geometry, General Mathematics, Geometry, Partial Differential Equations, Mathematical Logic and Foundations, Optics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2022 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2018 - 2022

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2003 - 2018

Research Assistant PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2003 - 2003

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 1994 - 2003

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği Bölümü, 2008 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On solitary wave solutions for the extended nonlinear Schrödinger equation via the modified F-expansion method**
ÖZİŞİK M., SEÇER A., Bayram M.
Optical and Quantum Electronics, vol.55, no.3, 2023 (SCI-Expanded)
- II. **Solitons in dual-core optical fibers with chromatic dispersion**
ÖZİŞİK M., Bayram M., SEÇER A., ÇINAR M.
Optical and Quantum Electronics, vol.55, no.2, 2023 (SCI-Expanded)
- III. **On the investigation of optical soliton solutions of cubic–quartic Fokas–Lenells and Schrödinger–Hirota equations**
ÖZİŞİK M., ÖNDER İ., ESEN H., ÇINAR M., Ozdemir N., SEÇER A., Bayram M.
Optik, vol.272, 2023 (SCI-Expanded)
- IV. **Soliton and other solutions of the (2+1)-dimensional Date–Jimbo–Kashiwara–Miwa equation with conformable derivative**
Ozdemir N., SEÇER A., ÖZİŞİK M., Bayram M.
Physica Scripta, vol.98, no.1, 2023 (SCI-Expanded)
- V. **Investigation of optical soliton solutions of higher-order nonlinear Schrödinger equation having Kudryashov nonlinear refractive index**
Özışık M., Seçer A., Bayram M., Çınar M., Özdemir N., Esen H., Önder İ.
OPTİK, vol.274, pp.170548, 2023 (SCI-Expanded)
- VI. **Soliton Waves with the (3+1)-Dimensional Kadomtsev–Petviashvili–Boussinesq Equation in Water Wave Dynamics**
ÖZİŞİK M., SEÇER A., Bayram M.
Symmetry, vol.15, no.1, 2023 (SCI-Expanded)
- VII. **Obtaining the soliton solutions of local M-fractional magneto-electro-elastic media**
Ozdemir N., SEÇER A., ÖZİŞİK M., Bayram M.
Heliyon, vol.9, no.1, 2023 (SCI-Expanded)
- VIII. **Soliton solutions of the (2 + 1)-dimensional Kadomtsev–Petviashvili equation via two different integration schemes**
ÖZİŞİK M., SEÇER A., Bayram M., Yusuf A., Sulaiman T. A.
International Journal of Modern Physics B, 2023 (SCI-Expanded)
- IX. **Acquiring the solitons of inhomogeneous Murnaghan's rod using extended Kudryashov method with Bernoulli–Riccati approach**
ÖZİŞİK M., Secer A., Bayram M., Sulaiman T. A., Yusuf A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.36, no.30, 2022 (SCI-Expanded)
- X. **Obtaining optical soliton solutions of the cubic–quartic Fokas–Lenells equation via three different analytical methods**
Önder İ., Secer A., Ozisik M., Bayram M.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.12, 2022 (SCI-Expanded)
- XI. **Optical soliton solutions of the Chen–Lee–Liu equation in the presence of perturbation and the effect of the inter-modal dispersion, self-steepening and nonlinear dispersion**
ÖZİŞİK M., Bayram M., SEÇER A., Cinar M.
Optical and Quantum Electronics, vol.54, no.12, 2022 (SCI-Expanded)
- XII. **Soliton solutions to the nonlinear higher dimensional Kadomtsev–Petviashvili equation through the**

new Kudryashov's technique

ESEN H., SEÇER A., ÖZİŞİK M., BAYRAM M.

PHYSICA SCRIPTA, vol.97, no.11, 2022 (SCI-Expanded)

- XIII. **Novel (2+1) and (3+1) forms of the Biswas–Milovic equation and optical soliton solutions via two efficient techniques**
ÖZİŞİK M.
Optik, vol.269, 2022 (SCI-Expanded)
- XIV. **Two Analytical Schemes for the Optical Soliton Solution of the (2**
Ozdemir N., SEÇER A., ÖZİŞİK M., BAYRAM M.
UNIVERSE, vol.8, no.11, 2022 (SCI-Expanded)
- XV. **Optical solitons for Biswas-Milovic equation using the new Kudryashov's scheme**
Altun S., ÖZİŞİK M., Secer A., Bayram M.
OPTIK, vol.270, 2022 (SCI-Expanded)
- XVI. **On the examination of optical soliton pulses of Manakov system with auxiliary equation technique**
ÖZİŞİK M., SEÇER A., Bayram M.
OPTIK, vol.268, 2022 (SCI-Expanded)
- XVII. **Optical soliton perturbation with Fokas-Lenells equation via enhanced modified extended tanh-expansion approach**
ESEN H., ÖZİŞİK M., Secer A., Bayram M.
OPTIK, vol.267, 2022 (SCI-Expanded)
- XVIII. **The bell-shaped perturbed dispersive optical solitons of Biswas-Arshed equation using the new Kudryashov's approach**
ÖZİŞİK M., SEÇER A., Bayram M.
OPTIK, vol.267, 2022 (SCI-Expanded)
- XIX. **Dispersive optical solitons of Biswas-Arshed equation with a couple of novel**
ÖZİŞİK M., SEÇER A., Bayram M.
OPTIK, vol.265, 2022 (SCI-Expanded)
- XX. **Optical solitons to the (1+2)-dimensional Chiral non-linear Schrodinger equation**
ÖZİŞİK M., Bayram M., Secer A., ÇINAR M., Yusuf A., Sulaiman T. A.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.9, 2022 (SCI-Expanded)
- XXI. **An encyclopedia of Kudryashov's integrability approaches applicable to optoelectronic devices**
ÖZİŞİK M., SEÇER A., Bayram M., Aydin H.
OPTIK, vol.265, 2022 (SCI-Expanded)
- XXII. **Original Perturbation of dispersive optical solitons with Schrodinger-Hirota equation with Kerr law and spatio-temporal dispersion**
Ozdemir N., SEÇER A., ÖZİŞİK M., Bayram M.
OPTIK, vol.265, 2022 (SCI-Expanded)
- XXIII. **Analytical soliton solutions of the higher order cubic-quintic nonlinear Schrodinger equation and the influence of the model's parameters**
ESEN H., SEÇER A., ÖZİŞİK M., Bayram M.
JOURNAL OF APPLIED PHYSICS, vol.132, no.5, 2022 (SCI-Expanded)
- XXIV. **Dark, bright and singular optical solutions of the Kaup–Newell model with two analytical integration schemes**
ESEN H., SEÇER A., ÖZİŞİK M., Bayram M.
Optik, vol.261, 2022 (SCI-Expanded)
- XXV. **Optical solitons with Kudryashov's sextic power-law nonlinearity**
Ozisik M., Çınar M., Secer A., Bayram M.
OPTIK, vol.261, 2022 (SCI-Expanded)
- XXVI. **Derivation of optical solitons of dimensionless Fokas-Lenells equation with perturbation term using Sardar sub-equation method**
ÇINAR M., SEÇER A., ÖZİŞİK M., Bayram M.

- OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.7, 2022 (SCI-Expanded)
- XXVII. **On the analytical optical soliton solutions of perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law nonlinearity**
ÖZİŞİK M., SEÇER A., Bayram M., Yusuf A., Sulaiman T. A.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.6, 2022 (SCI-Expanded)
- XXVIII. **An Efficient Method for Analytically Solving (1+ 2)-dimensional Chiral Non-linear Schrödinger Equation**
Özışık M., Bayram M., Seçer A., Çınar M.
OPTICAL AND QUANTUM ELECTRONICS, vol.3, no.4, pp.44-61, 2022 (SCI-Expanded)
- XXIX. **On the optical soliton solutions of Kundu–Mukherjee–Naskar equation via two different analytical methods**
ÖNDER İ., SEÇER A., ÖZİŞİK M., Bayram M.
Optik, vol.257, 2022 (SCI-Expanded)
- XXX. **On the optical soliton solution of the (1+1)- dimensional perturbed NLSE in optical nano-fibers**
ÖZİŞİK M.
OPTİK, vol.250, 2022 (SCI-Expanded)
- XXXI. **DISPERSION OF GENERALIZED RAYLEIGH WAVES IN THE HALF-PLANE COVERED WITH PRE-STRETCHED TWO LAYERS UNDER COMPLETE CONTACT**
Özışık M.
THERMAL SCIENCE, vol.25, 2021 (SCI-Expanded)
- XXXII. **Dynamics of the Moving Ring Load Acting in the System "Hollow Cylinder plus Surrounding Medium" with Inhomogeneous Initial Stresses**
Akbarov S. D., Bagirov E. T., ÖZİŞİK M.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.61, no.2, pp.503-534, 2019 (SCI-Expanded)
- XXXIII. **Three-dimensional dynamics of the moving load acting on the interior of the hollow cylinder surrounded by the elastic medium**
AKBAROV S., MEHDIYEV M. A., OZISIK M.
STRUCTURAL ENGINEERING AND MECHANICS, vol.67, no.2, pp.185-206, 2018 (SCI-Expanded)
- XXXIV. **The Influence of the Imperfectness of Contact Conditions on the Critical Velocity of the Moving Load Acting in the Interior of the Cylinder Surrounded with Elastic Medium**
ÖZİŞİK M., MEHDIYEV M. A., Akbarov S.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.54, no.2, pp.103-136, 2018 (SCI-Expanded)
- XXXV. **Dynamic interaction of a prestressed nonlinear elastic layer and a half-plane**
Akbarov S., OZISIK M.
INTERNATIONAL APPLIED MECHANICS, vol.40, no.9, pp.1056-1063, 2004 (SCI-Expanded)
- XXXVI. **The influence of the third order elastic constants to the generalized Rayleigh wave dispersion in a pre-stressed stratified half-plane**
Akbarov S., OZISIK M.
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, vol.41, no.17, pp.2047-2061, 2003 (SCI-Expanded)
- XXXVII. **Rayleigh-wave propagation in a half-plane covered with a prestressed layer under complete and incomplete interfacial contact**
Ozisik M., Akbarov S.
MECHANICS OF COMPOSITE MATERIALS, vol.39, no.2, pp.177-182, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Non-topological Soliton Solution of (2+1)-dimensional Complex Three Coupled Nonlinear Maccari's Model via Modified New Kudryashov Scheme**
ÖZİŞİK M., TEKERCİOĞLU R.
Avrupa Bilim ve Teknoloji Dergisi, 2022 (Peer-Reviewed Journal)

- II. **The soliton solutions of (2+1)-dimensional nonlinear two-coupled Maccari equation with complex structure via new Kudryashov scheme**
Önder İ., Özışık M., Seçer A.
New Trends in Mathematical Sciences, vol.10, no.1, pp.82-89, 2022 (Conference Book)
- III. **Soliton solutions of nonlinear (2 + 1)-dimensional Biswas-Milovic equation via new approach of generalized Kudryashov scheme**
Özışık M.
New Trends in Mathematical Sciences, vol.10, no.1, pp.47-53, 2022 (Conference Book)
- IV. **Logaritma Fonksiyonunun İrrasyonel Fonksiyon İle Temsili ve Bu Temsile Dayalı Üstel Fonksiyon Elde Edilmesi Üzerine**
ÖZİŞİK M.
Avrupa Bilim ve Teknoloji Dergisi, no.25, pp.542-549, 2021 (Peer-Reviewed Journal)
- V. **Sinc-Galerkin method for solving system of singular perturbed reaction-diffusion problems**
SEÇER A., ÖNDER İ., ÖZİŞİK M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.39, no.2, pp.203-212, 2021 (ESCI)
- VI. **Tabaka İle Örtülü Yarı Düzlemdeki Yüzey Dalgalarına Tabaka Kalınlığı ve Ön Gerilmelerin Etkisinin Tam Temas Koşulları Altında İncelenmesi**
ÖZİŞİK M.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.25, pp.87-93, 2021 (Peer-Reviewed Journal)
- VII. **Lineer Elastik ve Öngerilmeli Tabaka İle Örtülmüş Lineer Elastik ve Öngerilmeli Yarı Düzlemde Genelleştirilmiş Rayleigh Dalgalarının Dispersiyonu**
ÖZİŞİK M.
Sigma Journal of Engineering and Natural Sciences - Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.2003, no.3, pp.9-23, 2003 (Peer-Reviewed Journal)
- VIII. **Lineer elastik ve ön gerilmeli tabaka ile örtülmüş lineer elastik ve ön gerilmeli yarı düzlemde genelleştirilmiş Rayleigh dalgalarının dispersiyonu**
ÖZİŞİK M.
Yıldız Teknik Üniversitesi Dergisi, pp.6-23, 2003 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Analytical soliton solution of (2 + 1)-dimensional Kadomtsev-Petviashvilli-Joseph-Egri Equation via ancient two integral schemes**
Çakıcıoğlu H., Özışık M., Seçer A.
10th (Online) International Conference on Applied Analysis and Mathematical Modeling (ICAAMM22), İstanbul, Turkey, 01 July 2022, pp.44
- II. **On the optical soliton solutions of a couple of equations with Kerr law nonlinearity**
Önder İ., Çınar M., Esen H., Özışık M., Seçer A., Bayram M.
International Conference on Analysis and Applied Mathematics, İstanbul, Turkey, 31 October - 06 November 2022, pp.134
- III. **Optical soliton with Schrödinger-Hirota equation having parabolic law by generalized Kudryashov scheme**
ÇAKICIOĞLU H., ÖZİŞİK M., SEÇER A., BAYRAM M.
Sixth International Conference on Analysis and Applied Mathematics - ICAAM 2022, İstanbul, Turkey, 31 October 2022, pp.132-134
- 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.
Sixth International Conference on Analysis and Applied Mathematics - ICAAM 2022, İstanbul, Turkey, 31 October

2022, pp.131

- V. **Stochastic optical solitons of the (2+1)-dispersive nonlinear Schrödinger equation having multiplicative white noise via Ito sense**
ALTUN S., ÖZİŞİK M., SEÇER A., BAYRAM M.
International Symposium on Applied Mathematics and Engineering (ISAME2022), İstanbul, Turkey, 31 October 2022, pp.137
- VI. **Optical soliton solutions of nonlinear Schrödinger-Hirota model involving nonlinear chromatic dispersion**
Özışık M., Seçer A., Bayram M., Çınar M., Esen H., Önder İ.
Online International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 1 - 03 July 2022, pp.34-35
- VII. **An investigation on nonlinear higher order Schrödinger equation having refractive indices and chromatic dispersion**
Özışık M., Seçer A., Bayram M., Çınar M., Esen H., Önder İ.
Online International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 1 - 03 July 2022, pp.61-62
- VIII. **Soliton solutions of Fokas system in monomode optical media**
Önder İ., Seçer A., Özışık M.
Online International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 1 - 03 July 2022, pp.63
- IX. **Investigation of Hirota's equation under the influence of model parameter in single-mode fiber**
ÖZİŞİK M.
10th (Online) International Conference on Applied Analysis and Mathematical Modeling (ICAAMM22), İstanbul, Turkey, 01 July 2022, pp.45
- X. **An investigation of the DNA Peyrard-Bishop equation with beta-derivative**
SEÇER A., ÖZİŞİK M., ÖZDEMİR N., ÇINAR M., BAYRAM M.
10th (Online) International Conference on Applied Analysis and Mathematical Modeling (ICAAMM22), İstanbul, Turkey, 01 July 2022, pp.47
- XI. **Soliton solutions of nonlinear (2 + 1)-dimensional Biswas-Milovic equation via new approach of generalized Kudryashov scheme**
Özışık M.
Online International Symposium on Applied Mathematics and Engineering (ISAME22), İstanbul, Turkey, 21 - 23 January 2022, pp.43
- XII. **The Soliton Solutions of (2+1)-Dimensional Nonlinear Two-Coupled Maccari Equation with Complex Structure via New Kudryashov Scheme**
Önder İ., Seçer A., Özışık M.
Online International Symposium on Applied Mathematics Engineering, İstanbul, Turkey, 21 - 23 January 2022, pp.97
- XIII. **Application of Extended Rational Sin-Cos and Sinh-Cosh Method for the System of Nonlinear Partial Differential Equations**
Önder İ., Seçer A., Özışık M., Bayram M.
Online International Conference on Applied Analysis and Mathematical Modeling, 2021, İstanbul, Turkey, 11 - 13 June 2021, pp.36
- XIV. **Numerical Solution of Fractional Order Partial Differential Equation via Modified Laplace Method**
Önder İ., Seçer A., Özışık M., Bayram M.
Online International Conference on Applied Analysis and Mathematical Modeling, 2021, İstanbul, Turkey, 11 - 13 June 2021, pp.39
- XV. **An irrational function approach for exponential calculations and exponential function graphs**
Özışık M.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM19, İstanbul, Turkey, 10 - 13 March 2019, pp.234

- XVI. **An Irrational function proposal for logarithm calculation**
Özışık M.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM18, İstanbul, Turkey, 20 - 24 July 2018, pp.234
- XVII. **Generalized Rayleigh Wave Propagation In The Half-Plane Covered By Two Pre-Stretched Layers**
D.Akbarov S., Özışık M.
The Seventh International Conference On Vibration Problems, İstanbul, Turkey, 5 - 09 September 2005, pp.5
- XVIII. **Lineer elastik ve çekme ön gerilmeli tabaka ile örtülmüş basınç ön gerilmeli yarı düzlemde genelleştirilmiş Rayleigh dalgalarının dispersiyonu**
ÖZİŞİK M.
XIII. Ulusal Mekanik Kongresi, Gaziantep, Turkey, 08 September 2003, pp.625-634
- XIX. **Rayleigh wave propagation in a half-plane covered with a prestressed layer under complete and incomplete interfacial contact**
ÖZİŞİK M., D.AKBAROV S.
MCM-2002 Twelfth Internaitonal Conference (Mechanics of Composite Materials, June 9-13, 2002, Riga-Latvia), Riga, Latvia, 09 June 2002, pp.140
- XX. **Öngerilmeli Tabaka ile Örtülmüş Yarı Düzlemde Boyuna Dalga Yayılımı**
ÖZİŞİK M., D.AKBAROV S.
XII. ULUSAL MEKANİK KONGRESİ, Konya, Turkey, 10 - 14 September 2001, pp.709-717
- XXI. **Longitudinal wave propagation in half plane covered with pre-stressed layer**
Ozisik M., Akbarov S. D.
Eighth Annual International Conference on Composites Engineering, Canary Islands, Spain, 05 August 2001, pp.707-708

Metrics

Publication: 66
Citation (WoS): 185
Citation (Scopus): 212
H-Index (WoS): 7
H-Index (Scopus): 7

Congress and Symposium Activities

ICAAA2012 International Conference On Applied Analysis And Algebra, Attendee, İstanbul, Turkey, 2012
XIII. Ulusal Mekanik Kongresi, Attendee, Gaziantep, Turkey, 2003
XII. Ulusal Mekanik Kongresi, 10-14 Eylül, Attendee, Konya, Turkey, 2002
Eighth Annual International Conference on Composites Engineering, Attendee, Canary Islands, Spain, 2001