

Assoc. Prof. MEHMET EKİCİ

Personal Information

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2011 - 2016

Postgraduate, Aydın Adnan Menderes University, Graduate School Of Natural And Applied Sciences, Matematik (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Celâl Bayar Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2004 - 2008

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Hilbert uzaylarında ve normlu uzaylarda moment problemleri ve kontrol teorisindeki uygulamaları üzerine, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2016

Postgraduate, Standart ağırlar üzerinde δ -düzgün yakınsayan metotlar, Aydın Adnan Menderes University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2010

Research Areas

Mathematics, Differential Equations

Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2017 - Continues

Lecturer, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2011 - 2017

Courses

GENEL MATEMATİK-1, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

NÜMERİK ANALİZ 2, Undergraduate, 2017 - 2018, 2016 - 2017

UZMANLIK ALAN DERSİ-I, Postgraduate, 2017 - 2018
SONLU BOYUTLU LİNEER OBJELERİN KONTOLÜNE GİRİŞ II, Postgraduate, 2017 - 2018
MATEMATİK-2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
TEMEL BİLGİ TEKNOLOJİLERİ KULLANIMI, Undergraduate, 2017 - 2018, 2016 - 2017
UYGULAMALI BİLİMLERDE MATEMATİK II, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
MATEMATİK II, Undergraduate, 2017 - 2018
BİTİRME TEZİ, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
NÜMERİK ANALİZ 1, Undergraduate, 2017 - 2018, 2016 - 2017
UYGULAMALI BİLİMLERDE MATEMATİK I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016
BİLGİSAYAR PROGRAMLAMAYA GİRİŞ, Undergraduate, 2017 - 2018, 2016 - 2017
DAĞILMIŞ PARAMETRELİ SİSTEMLERİN KONTROLLÜ METODLARI II, Postgraduate, 2017 - 2018, 2016 - 2017
DAĞILMIŞ PARAMETRELİ SİSTEMLERİN KONTROLLÜ METODLARI, Postgraduate, 2017 - 2018, 2016 - 2017
MATEMATİK I, Undergraduate, 2017 - 2018
UZMANLIK ALAN DERSİ II, Postgraduate, 2017 - 2018
MÜHENDİSLİK MATEMATİĞİ I, Undergraduate, 2016 - 2017
MÜHENDİSLİK MATEMATİĞİ II, Undergraduate, 2016 - 2017
DİFFERANSİYEL DENKLEMLER, Undergraduate, 2015 - 2016
MÜHENDİSLİK MATEMATİĞİ, Undergraduate, 2015 - 2016
MÜHENDİSLİK MATEMATİĞİ-1, Undergraduate, 2015 - 2016
DİFFERANSİYEL DENKLEMLER, Undergraduate, 2015 - 2016

Advising Theses

Ekici M., Belirsiz Katsayılar Metoduyla Bazı Nonlineer Kısmi Diferansiyel Denklemlerin Optik Soliton Çözümleri ve Korunum Kanunları, Postgraduate, A.ŞENATLI(Student), 2023
Ekici M., Bazı nonlinear kısmi diferansiyel denklemlerin çeşitli tam analitik çözümleri, Postgraduate, C.ALİ(Student), 2023
Ekici M., Nonlinear kromatik dağılımlı kompleks ginzburg-landau denkleminin durağan optik soliton çözümleri, Postgraduate, A.MURAT(Student), 2022
Ekici M., Genişletilmiş direkt cebirsel yöntem ile kudryashovmodeli için diferansiyel grup gecikmeli kübik-kuartikoptik solitonlar, Postgraduate, A.ADANIR(Student), 2021
EKİCİ M., GENİŞLETİLMİŞ (G'/G)-AÇILIM YÖNTEMİ İLE MANYETO-OPTİK DALGA KILAVUZLARINDA OPTİK SOLİTON PERTÜRBASYONU, Postgraduate, E.KOÇ(Student), 2021
Ekici M., GENİŞLETİLMİŞ DENEME FONKSİYON YÖNTEMİ İLE NONLİNEER KROMATİK DAĞILIMLI VE GENELLEŞTİRİLMİŞ ZAMANSAL GELİŞİMLİ DURAĞAN OPTİK SOLİTONLAR, Postgraduate, N.SUCU(Student), 2021
EKİCİ M., F-AÇILIM YÖNTEMLERİ İLE KUDRYASHOV KIRILMA İNDİSİ YASASINA SAHİP KÜBİK-KUARTİK OPTİK SOLİTONLAR, Postgraduate, G.GENÇ(Student), 2021
EKİCİ M., ETKİLİ METOTLAR İLE ANTI-KÜBİK NONLİNEERLİĞE SAHİP ÇİFT KIRILMALI FİBERLERDE OPTİK SOLİTONLAR, Postgraduate, H.BÖLÜKBAŞI(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Certain analytical solutions of the concatenation model with a multiplicative white noise in optical fibers**
EKİCİ M., Sarmaşık C. A.
Nonlinear Dynamics, vol.112, no.11, pp.9459-9476, 2024 (SCI-Expanded)
- II. **Multi wave, kink, breather, Peregrine-like rational and interaction solutions for the concatenation model**
Sarmaşık C. A., EKİCİ M.
Optical and Quantum Electronics, vol.56, no.2, 2024 (SCI-Expanded)

- III. **Embedded solitons with (2) nonlinear susceptibility**
Yldrm Y., Biswas A., EKİCİ M., Khan S., Triki H., Moraru L., Alzahrani A., Belic M.
Scientia Iranica, vol.30, no.6D, pp.2125-2142, 2023 (SCI-Expanded)
- IV. **Sequel to "stationary optical solitons with Kudryashov's laws of refractive index" (generalized temporal evolution)**
Biswas A., SÖNMEZOĞLU A., EKİCİ M.
Journal of Nonlinear Optical Physics and Materials, vol.32, no.1, 2023 (SCI-Expanded)
- V. **Stationary optical solitons with Kudryashov's quintuple power law nonlinearity by extended Jacobi's elliptic function expansion**
EKİCİ M.
Journal of Nonlinear Optical Physics and Materials, vol.32, no.1, 2023 (SCI-Expanded)
- VI. **Stationary optical solitons with complex Ginzburg–Landau equation having nonlinear chromatic dispersion and Kudryashov's refractive index structures**
Ekici M.
PHYSICS LETTERS A, vol.440, pp.128146, 2022 (SCI-Expanded)
- VII. **Kinky breathers, W-shaped and multi-peak soliton interactions for Kudryashov's quintuple power-law coupled with dual form of non-local refractive index structure**
Ekici M.
CHAOS, SOLITONS AND FRACTALS, vol.159, pp.112172, 2022 (SCI-Expanded)
- VIII. **Optical solitons for Kudryashov's model: undetermined coefficients with Jacobi's elliptic functions**
SÖNMEZOĞLU A., EKİCİ M., Biswas A.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.16, no.5-6, pp.243-247, 2022 (SCI-Expanded)
- IX. **Optical solitons with Kudryashov's quintuple power-law coupled with dual form of non-local law of refractive index with extended Jacobi's elliptic function**
EKİCİ M.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.5, 2022 (SCI-Expanded)
- X. **Optical Soliton Perturbation with Generalized Quadratic-Cubic Nonlinearity by Semi-Inverse Variation**
Biswas A., Yildirim Y., EKİCİ M., Aphane M., Moshokoa S. P., Alshehri H. M.
OPTICS AND SPECTROSCOPY, vol.130, no.4, pp.244-247, 2022 (SCI-Expanded)
- XI. **Stationary optical solitons with complex Ginzburg–Landau equation having nonlinear chromatic dispersion**
Yalci A. M., EKİCİ M.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.3, 2022 (SCI-Expanded)
- XII. **Stationary optical solitons with Kudryashov's quintuple power-law of refractive index having nonlinear chromatic dispersion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A.
PHYSICS LETTERS A, vol.426, 2022 (SCI-Expanded)
- XIII. **Optical solitons in fiber Bragg gratings with quadratic-cubic law of nonlinear refractive index and cubic-quartic dispersive reflectivity**
Zayed E. M. E., Alngar M. E. M., Biswas A., EKİCİ M., Khan S., Alzahrani A. K., Belic M. R.
Proceedings of the Estonian Academy of Sciences, vol.71, no.2, pp.165-177, 2022 (SCI-Expanded)
- XIV. **Stationary optical solitons with Kudryashov's self-phase modulation and nonlinear chromatic dispersion**
Adem A. R., Ntsime B. P., Biswas A., Dakova A., EKİCİ M., Yidirim Y., Alshehri H. M.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.16, no.1-2, pp.58-60, 2022 (SCI-Expanded)
- XV. **Optical Solitons in Fiber Bragg Gratings with Polynomial Law Nonlinearity and Cubic-Quartic Dispersive Reflectivity**
Zayed E. M. E., Alngar M. E. M., Biswas A., EKİCİ M., Guggilla P., Khan S., Alshehri H. M., Belic M. R.

OPTICS AND SPECTROSCOPY, vol.130, no.1, pp.28-34, 2022 (SCI-Expanded)

- XVI. **Cubic-Quartic Optical Solitons and Conservation Laws with Kudryashov's Law of Refractive Index by Extended Trial Function**
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Kara A. H., Alzahrani A. K., Belic M. R.
Computational Mathematics and Mathematical Physics, vol.61, no.12, pp.1995-2003, 2021 (SCI-Expanded)
- XVII. **Cubic-quartic solitons in couplers with optical metamaterials having dual-power law of nonlinearity**
Zayed E. M. E., Alngar M. E. M., Biswas A., Yildirim Y., EKİCİ M., Alshehri H. M., Belic M. R.
OPTIK, vol.247, 2021 (SCI-Expanded)
- XVIII. **Cubic-quartic solitons in couplers with optical metamaterials having parabolic law nonlinearity**
Zayed E. M., Alngar M. E., Biswas A., Yildirim Y., EKİCİ M., Alshehri H. M., Belic M. R.
Optik, vol.247, 2021 (SCI-Expanded)
- XIX. **Conservation laws for solitons in magneto-optic waveguides with dual-power law nonlinearity**
Biswas A., Vega-Guzman J. M., Kara A. H., Zhou Q., EKİCİ M., Yildirim Y., Alshehri H. M., Belic M. R.
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.416, 2021 (SCI-Expanded)
- XX. **Algorithm for dark solitons with Radhakrishnan-Kundu-Lakshmanan model in an optical fiber**
Annamalai M., Veerakumar N., Narasimhan S. L., Selvaraj A., Zhou Q., Biswas A., EKİCİ M., Alshehri H. M., Belic M. R.
Results in Physics, vol.30, 2021 (SCI-Expanded)
- XXI. **Cubic-quartic solitons for twin-core couplers in optical metamaterials**
Zayed E. M. E., Gepreel K. A., Alngar M. E. M., Biswas A., Dakova A., EKİCİ M., Alshehri H. M., Belic M. R.
OPTIK, vol.245, 2021 (SCI-Expanded)
- XXII. **Stationary optical solitons with Kudryashov's laws of refractive index**
EKİCİ M., SÖNMEZOĞLU A., Biswas A.
CHAOS SOLITONS & FRACTALS, vol.151, 2021 (SCI-Expanded)
- XXIII. **Peakon and cuspon excitations in optical fibers for eighth order nonlinear Schrodinger's model**
Muniyappan A., Priya O. A., Amirthani S., Brintha K., Biswas A., EKİCİ M., Dakova A., Alshehri H. M., Belic M. R.
OPTIK, vol.243, 2021 (SCI-Expanded)
- XXIV. **Optical solitons in birefringent fibers having anti-cubic nonlinearity with Jacobi's elliptic function expansions**
Bolukbasi H., EKİCİ M., Biswas A.
OPTICAL AND QUANTUM ELECTRONICS, vol.53, no.10, 2021 (SCI-Expanded)
- XXV. **Time-dependent coupled complex short pulse equation: Invariant analysis and complexitons**
Kumar V., Biswas A., EKİCİ M., Moraru L., Alzahrani A. K., Belic M. R.
CHAOS SOLITONS & FRACTALS, vol.150, 2021 (SCI-Expanded)
- XXVI. **Cubic-quartic optical soliton perturbation and conservation laws with Lakshmanan-Porsezian-Daniel model: Undetermined coefficients**
Vega-Guzman J., Biswas A., Kara A. H., Mahmood M., EKİCİ M., Alshehri H. M., Belic M. R.
Journal of Nonlinear Optical Physics and Materials, vol.30, 2021 (SCI-Expanded)
- XXVII. **Solitons in nonlinear directional couplers with optical metamaterials by unified Riccati equation approach**
Zayed E. M. E., Alngar M. E. M., Biswas A., EKİCİ M., Arshed S., Alzahrani A. K., Belic M. R.
OPTIK, vol.241, 2021 (SCI-Expanded)
- XXVIII. **Highly dispersive optical soliton perturbation with Kudryashov's sextic-power law nonlinear refractive index by semi-inverse variation**
Biswas A., EKİCİ M., Dakova A., Khan S., Moshokoa S. P., Alshehri H. M., Belic M. R.
RESULTS IN PHYSICS, vol.27, 2021 (SCI-Expanded)
- XXIX. **Conservation Laws for Solitons in Magneto-optic Waveguides with Anti-cubic and Generalized Anti-cubic Nonlinearities**
Biswas A., Kara A. H., EKİCİ M., Zayed E. M. E., Alzahrani A. K., Belic M. R.
REGULAR & CHAOTIC DYNAMICS, vol.26, no.4, pp.456-461, 2021 (SCI-Expanded)
- XXX. **Formation of chirped kink similaritons in non-Kerr media with varying Raman effect**
Triki H., Benlalli A., Zhou Q., Biswas A., EKİCİ M., Alzahrani A. K., Xu S., Belic M. R.

RESULTS IN PHYSICS, vol.26, 2021 (SCI-Expanded)

- XXXI. **Optical solitons and bifurcation analysis in fiber Bragg gratings with Lie symmetry and Kudryashov's approach**
Malik S., Kumar S., Biswas A., EKİCİ M., Dakova A., Alzahrani A. K., Belic M. R.
NONLINEAR DYNAMICS, vol.105, no.1, pp.735-751, 2021 (SCI-Expanded)
- XXXII. **Stationary optical solitons with nonlinear chromatic dispersion and generalized temporal evolution by extended trial function approach**
Sucu N., EKİCİ M., Biswas A.
CHAOS SOLITONS & FRACTALS, vol.147, 2021 (SCI-Expanded)
- XXXIII. **Modeling interaction of ultrashort pulses with ENZ materials**
Elloh C., Edah G., Ayela A., Biswas A., EKİCİ M., Alzahrani A. K., Belic M. R.
CHINESE JOURNAL OF PHYSICS, vol.71, pp.492-505, 2021 (SCI-Expanded)
- XXXIV. **Pure-Cubic Optical Soliton Perturbation with Complex Ginzburg-Landau Equation Having a Dozen Nonlinear Refractive Index Structures**
Zayed E. M. E., Alngar M. E. M., Biswas A., EKİCİ M., Khan S., Alshomrani A. S.
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS, vol.66, no.5, pp.481-544, 2021 (SCI-Expanded)
- XXXV. **Optical soliton perturbation in magneto-optic waveguides by extended G'/G -expansion**
Koç E., EKİCİ M., Biswas A.
Optical and Quantum Electronics, vol.53, no.5, 2021 (SCI-Expanded)
- XXXVI. **Chirped super-Gaussian and super-sech pulse perturbation of nonlinear Schrodinger's equation with quadratic-cubic nonlinearity by variational principle**
Ayela A. M., Edah G., Elloh C., Biswas A., EKİCİ M., Alzahrani A. K., Belic M. R.
PHYSICS LETTERS A, vol.396, 2021 (SCI-Expanded)
- XXXVII. **Optical soliton perturbation with dual forms of simple equation approach: A transparent comparison**
Darwish A., Abo El-Dahab E., Ahmed H., Arnous A. H., Ahmed M. S., Biswas A., EKİCİ M., Khan S., Alzahrani A. K., Belic M. R.
OPTIK, vol.231, 2021 (SCI-Expanded)
- XXXVIII. **Optical solitons with Sasa-Satsuma equation by Laplace-Adomian decomposition algorithm**
Gonzalez-Gaxiola O., Biswas A., EKİCİ M., Alshomrani A. S.
OPTIK, vol.229, 2021 (SCI-Expanded)
- XXXIX. **Optical soliton polarization with Lakshmanan-Porsezian-Daniel model by unified approach**
Ullah M. S., Harun-Or-Roshid H., Ali M. Z., Biswas A., EKİCİ M., Khan S., Moraru L., Alzahrani A. K., Belic M. R.
RESULTS IN PHYSICS, vol.22, 2021 (SCI-Expanded)
- XL. **Gausson parameter dynamics in ENZ-material based waveguides using moment method**
Elloh C., Edah G., Ayela A., Biswas A., EKİCİ M., Asma M., Alzahrani A. K., Belic M. R.
OPTIK, vol.227, 2021 (SCI-Expanded)
- XLI. **Highly dispersive optical solitons perturbation having Kudryashov's arbitrary form with sextic-power law refractive index and generalized non-local laws**
Nofal T. A., Zayed E. M. E., Alngar M. E. M., Shohib R. M. A., EKİCİ M.
OPTIK, vol.228, 2021 (SCI-Expanded)
- XLII. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by traveling waves and Adomian decomposition**
Asma M., Biswas A., EKİCİ M., Gonzalez-Gaxiola O., Alzahrani A. K., Belic M. R.
OPTICAL AND QUANTUM ELECTRONICS, vol.53, no.3, 2021 (SCI-Expanded)
- XLIII. **Cubic-quartic optical solitons and conservation laws with Kudryashov's sextic power-law of refractive index**
Zayed E. M. E., Alngar M. E. M., Biswas A., Kara A. H., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.227, 2021 (SCI-Expanded)
- XLIV. **Solitons and conservation laws in magneto-optic waveguides with generalized Kudryashov's equation**
Zayed E. M. E., Alngar M. E. M., Biswas A., Kara A. H., Asma M., EKİCİ M., Khan S., Alzahrani A. K., Belic M. R.

CHINESE JOURNAL OF PHYSICS, vol.69, pp.186-205, 2021 (SCI-Expanded)

- XLV. **Optical soliton perturbation, with maximum intensity, having generalized Kudryashov's law of refractive index**
Yildirim Y., Biswas A., EKİCİ M., Zayed E. M. E., Alzahrani A. K., Belic M. R.
OPTIK, vol.227, 2021 (SCI-Expanded)
- XLVI. **Optical solitons and conservation laws associated with Kudryashov's sextic power-law nonlinearity of refractive index**
Zayed E. M. E., Shohib R. M. A., Alngar M. E. M., Biswas A., EKİCİ M., Khan S., Alzahrani A. K., Belic M. R.
UKRAINIAN JOURNAL OF PHYSICAL OPTICS, vol.22, no.1, pp.38-49, 2021 (SCI-Expanded)
- XLVII. **Optical solitons and conservation laws of Kudryashov's equation with improved modified extended tanh-function**
Arnous A. H., Biswas A., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.225, 2021 (SCI-Expanded)
- XLVIII. **Highly dispersive optical solitons in the nonlinear Schrodinger's equation having polynomial law of the refractive index change**
Zayed E. M. E., Alngar M. E. M., El-Horbaty M. M., Biswas A., Ekici M., Zhou Q., Khan S., Mallawi F., Belic M. R.
INDIAN JOURNAL OF PHYSICS, vol.95, no.1, pp.109-119, 2021 (SCI-Expanded)
- XLIX. **Solitons and conservation laws in magneto-optic waveguides with polynomial law nonlinearity**
Zayed E. M. E., El-Horbaty M. M., Alngar M. E. M., Biswas A., Kara A. H., Moraru L., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.223, 2020 (SCI-Expanded)
- L. **A pen-picture of solitons and conservation laws in magneto-optic waveguides having quadratic-cubic law of nonlinear refractive index**
Asma M., Biswas A., Kara A. H., Zayed E. M. E., Guggilla P., Khan S., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.223, 2020 (SCI-Expanded)
- LI. **Solitons in magneto-optic waveguides with generalized anti-cubic nonlinearity**
Zayed E. M. E., Alngar M. E. M., El-Horbaty M. M., Biswas A., Asma M., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.223, 2020 (SCI-Expanded)
- LII. **Cubic-Quartic Optical Solitons with Differential Group Delay for Kudryashov's Model by Extended Trial Function**
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alzahrani A. K., Belic M. R.
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS, vol.65, no.12, pp.1384-1398, 2020 (SCI-Expanded)
- LIII. **Pure-cubic optical soliton perturbation with full nonlinearity by unified Riccati equation expansion**
Zayed E. M. E., Alngar M. E. M., Biswas A., Asma M., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.223, 2020 (SCI-Expanded)
- LIV. **Chirped self-similar cnoidal waves and similaritons in an inhomogeneous optical medium with resonant nonlinearity**
Meradji S., Triki H., Zhou Q., Biswas A., EKİCİ M., Liu W.
CHAOS SOLITONS & FRACTALS, vol.141, 2020 (SCI-Expanded)
- LV. **Cubic-quartic optical soliton perturbation and conservation laws with Kudryashov's law of refractive index**
Yildirim Y., Biswas A., Kara A. H., EKİCİ M., Zayed E. M. E., Alzahrani A. K., Belic M. R.
PHYSICS LETTERS A, vol.384, no.34, 2020 (SCI-Expanded)
- LVI. **Optical soliton perturbation with exotic forms of nonlinear refractive index**
Jawad A. J. M., Abu-AlShaeer M. J., Zayed E. M. E., Alngar M. E. M., Biswas A., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.223, 2020 (SCI-Expanded)
- LVII. **Solitons in magneto-optic waveguides with anti-cubic nonlinearity**
Zayed E. M. E., Alngar M. E. M., Shohib R. M. A., Biswas A., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.222, 2020 (SCI-Expanded)
- LVIII. **Optical solitons in birefringent fibers with four-wave mixing by extended trial equation method**

Biswas A, Ekici M, Sonmezoglu A, Zhou Q, Moshokoa S. P., Belic M.

Scientia Iranica, vol.27, no.6 D, pp.3035-3052, 2020 (SCI-Expanded)

- LIX. **Solitons in magneto-optic waveguides with parabolic law nonlinearity**
Zayed E. M. E., Alngar M. E. M., El-Horbaty M. M., Biswas A., Guggilla P., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.222, 2020 (SCI-Expanded)
- LX. **Optical soliton perturbation with Kudryashov's equation by semi-inverse variational principle**
Biswas A., Asma M., Guggilla P., Mullick L., Moraru L., EKİCİ M., Alzahrani A. K., Belic M. R.
PHYSICS LETTERS A, vol.384, no.33, 2020 (SCI-Expanded)
- LXI. **Solitons and conservation laws in magneto-optic waveguides having parabolic-nonlocal law of refractive index**
Zayed E. M., Alngar M. E., ElHorbaty M. M., Biswas A., Kara A. H., EKİCİ M., Asma M., Alzahrani A. K., Belic M. R.
PHYSICS LETTERS A, vol.384, no.31, 2020 (SCI-Expanded)
- LXII. **Pure-cubic optical soliton perturbation with full nonlinearity**
Yildirim Y., Biswas A., Asma M., Guggilla P., Khan S., EKİCİ M., Alzahrani A. K., Belic M. R.
OPTIK, vol.222, 2020 (SCI-Expanded)
- LXIII. **Solitons in magneto-optic waveguides with Kudryashov's law of refractive index**
Zayed E. M. E., Alngar M. E. M., Biswas A., Asma M., EKİCİ M., Alzahrani A. K., Belic M. R.
CHAOS SOLITONS & FRACTALS, vol.140, 2020 (SCI-Expanded)
- LXIV. **Chirped and Chirp-Free Optical Solitons in Fiber Bragg Gratings with Kudryashov's Model in Presence of Dispersive Reflectivity**
Zayed E. M. E., Alngar M. E. M., Biswas A., Ekici M., Alzahrani A. K., Belic M. R.
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- LXVI. **Optical solitons with Sasa-Satsuma equation**
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- LXVII. **Optical solitons with differential group delay for Kudryashov's model by the auxiliary equation mapping method**
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- LXXXIV. **Optical solitons with fiber Bragg gratings and dispersive reflectivity having parabolic-nonlocal combo nonlinearity via three prolific integration architectures**
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- LXXXV. **Optical solitons in birefringent fibers for Radhakrishnan-Kundu-Lakshmanan equation with five prolific integration norms**
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- LXXXVI. **Optical solitons with complex Ginzburg-Landau equation having a plethora of nonlinear forms with a couple of improved integration norms**
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- LXXXVII. **Chirped super-Gaussian and super-sech pulse parameter dynamics with DWDM topology by variational principle**

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- LXXXVIII. **Highly dispersive optical soliton perturbation with quadratic-cubic refractive index by semi-inverse variational principle**

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- LXXXIX. **Cubic-quartic optical solitons in birefringent fibers with four forms of nonlinear refractive index by exp-function expansion**

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- XC. **Optical solitons with differential group delay for complex Ginzburg-Landau equation**

Yildirim Y., Biswas A., Jawad A. J. M., EKİCİ M., Zhou Q., Alzahrani A. K., Belic M. R.

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- XC.I. **Chirped and chirp-free optical solitons in fiber Bragg gratings having dispersive reflectivity with polynomial form of nonlinearity using sub-ODE approach**

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- XCII. **Sequel to highly dispersive optical soliton perturbation with cubic-quintic-septic refractive index by semi-inverse variational principle**

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- XCIII. **Dispersive optical dromions and domain walls with a few golden integration formulae**

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- XCIV. **Optical solitons with Kudryashov's equation by extended trial function**

Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alshomrani A. S., Belic M. R.

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- XCV. **Conservation laws for optical solitons with polynomial and triple-power laws of refractive index**

Biswas A., EKİCİ M., Zhou Q., Alshomrani A. S., Belic M. R.

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- XCVI. **Optical solitons and conservation laws of Kudryashov's equation using undetermined coefficients**

Biswas A., Vega-Guzman J., EKİCİ M., Zhou Q., Triki H., Alshomrani A. S., Belic M. R.

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- XCVII. **Optical solitons in birefringent fibers having anti-cubic nonlinearity with a few prolific integration algorithms**

Zayed E. M. E., Alngar M. E. M., El-Horbaty M. M., Biswas A., EKİCİ M., Alshomrani A. S., Khan S., Zhou Q., Belic M. R.

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- XCVIII. **Optical solitons in birefringent fibers with Lakshmanan-Porsezian-Daniel model by the aid of a few insightful algorithms**

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- XCIX. **Conservation laws for highly dispersive optical solitons**

Biswas A., Kara A. H., Alshomrani A. S., EKİCİ M., Zhou Q., Belic M. R.

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- C. **Dispersive solitons in optical fibers and DWDM networks with Schrodinger-Hirota equation**

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- CI. **Optical solitons with nonlocal-parabolic combo nonlinearity by Lie symmetry analysis coupled with modified G'/G -expansion**
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- CII. **Optical solitons with Kudryashov's equation by F-expansion**
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- CIII. **Highly dispersive optical soliton perturbation with cubic-quintic-septic refractive index by semi-inverse variational principle**
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- CIV. **Highly dispersive optical soliton perturbation with Kerr law by semi-inverse variational principle**
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- CV. **Optical solitons with complex Ginzburg-Landau equation for two nonlinear forms using F-expansion**
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Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S., Belic M. R.
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- CVII. **Optical solitons in fiber Bragg gratings with dispersive reflectivity for parabolic-nonlocal combo nonlinearity by extended trial function**
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S., Belic M. R.
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- CVIII. **Optical solitons in birefringent fibers with Lakshmanan-Porsezian-Daniel model by modified simple equation**
El-Sheikh M. M. A., Ahmed H. M., Arnous A. H., Rabie W. B., Biswas A., Alshomrani A. S., EKİCİ M., Zhou Q., Belic M. R.
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- CIX. **Highly dispersive singular optical solitons having Kerr law nonlinearity by Jacobi's elliptic cs function expansion**
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S.
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- CXIII. **Optical soliton perturbation with quadratic-cubic nonlinearity by mapping methods**
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- CXV. **W-shaped and bright optical solitons in negative indexed materials**
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- CXVI. **Highly dispersive optical solitons in absence of self-phase modulation by F-expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alshomrani A. S.
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- CXVII. **Solitons in optical fiber Bragg gratings with dispersive reflectivity by extended trial function method**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXVIII. **Suppressing internet bottleneck with fractional temporal evolution of cubic-quartic optical solitons**
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- CXIX. **Highly dispersive optical solitons with quadratic-cubic law by F-expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXX. **Highly dispersive optical solitons with undetermined coefficients**
Biswas A., Vega-Guzman J., Mahmood M. F., Khan S., EKİCİ M., Zhou Q., Moshokoa S. P., Belic M. R.
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- CXXIII. **Optical solitons for Lakshmanan-Porsezian-Daniel model by Riccati equation approach**
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- CXXIV. **Optical solitons in (2+1)-Dimensions with Kundu-Mukherjee-Naskar equation by extended trial function scheme**
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- CXXV. **Highly dispersive optical solitons with non-local nonlinearity by extended Jacobi's elliptic function expansion**
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- CXXVI. **Optical solitons in birefringent fibers with Kundu-Eckhaus equation**
Biswas A., Arshed S., EKİCİ M., Zhou Q., Moshokoa S. P., Alfiras M., Belic M.
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- CXXVII. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended G'/G -expansion scheme**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M.
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- CXXVIII. **Cubic-quartic optical soliton perturbation by semi-inverse variational principle**
Kohl R. W., Biswas A., EKİCİ M., Zhou Q., Moshokoa S. P., Belic M. R.
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- CXXIX. **Optical solitons in birefringent fibers having anti-cubic nonlinearity with exp-function**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXXX. **Chirped and chirp-free optical solitons with generalized anti-cubic nonlinearity by extended trial**

function scheme

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Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXXXII. **Highly dispersive optical solitons with Kerr law nonlinearity by exp-function**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXXXIII. **Highly dispersive optical solitons with non-local nonlinearity by F-expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXXXIV. **Optical solitons and other solutions with anti-cubic nonlinearity by Lie symmetry analysis and additional integration architectures**
Kumar S., Biswas A., EKİCİ M., Zhou Q., Moshokoa S. P., Belic M. R.
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- CXXXV. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended Jacobi's elliptic function expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M.
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- CXXXVI. **Soliton solutions and conservation laws of a (3+1)-dimensional nonlinear evolution equation**
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- CXXXVII. **Bright soliton interactions in a (2+1)-dimensional fourth-order variable-coefficient nonlinear Schrodinger equation for the Heisenberg ferromagnetic spin chain**
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- CXXXVIII. **Highly dispersive optical solitons in absence of self-phase modulation by Jacobi's elliptic function expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXXXIX. **Resonant optical solitons with fractional temporal evolution by modified extended direct algebraic method**
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- CXL. **Highly dispersive optical solitons with Kerr law nonlinearity by F-expansion**
Biswas A., Ekicid M., SÖNMEZOĞLU A., Belic M. R.
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- CXLI. **Highly dispersive optical solitons with cubic-quintic-septic law by It Check for exp-expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
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- CXLII. **Optical solitons in fiber Bragg gratings with dispersive reflectivity for parabolic law nonlinearity using undetermined coefficients**
Biswas A., Vega-Guzman J., Mahmood M. F., EKİCİ M., Zhou Q., Moshokoa S. P., Belic M. R.
OPTIK, vol.185, pp.39-44, 2019 (SCI-Expanded)
- CXLIII. **Optical solitons and conservation law in birefringent fibers with Kundu-Eckhaus equation by extended trial function method**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Kara A. H.
OPTIK, vol.179, pp.471-478, 2019 (SCI-Expanded)
- CXLIV. **Optical solitons in birefringent fibers having anti-cubic nonlinearity with extended trial function**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.

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- CXLV. **Highly dispersive optical solitons with cubic-quintic-septic law by extended Jacobi's elliptic function expansion**
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.
OPTIK, vol.183, pp.571-578, 2019 (SCI-Expanded)
- CXLVI. **Oblique resonant optical solitons with Kerr and parabolic law nonlinearities and fractional temporal evolution by generalized $\exp(-\Phi(\xi))$ -expansion**
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