

Assoc. Prof. MEHMET EKİCİ

Personal Information

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Education Information

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

Postgraduate, Aydin Adnan Menderes University, Graduate School Of Natural And Applied Sciences, Matematik (Yıl) (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 ağlar üzerinde ?-düzgün yakınsayan metodlar, Aydin Adnan Menderes University, Fen Bilimleri Enstitüsü, Matematik (Yıl) (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 LİNEEAR 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 MATEMATİÇİ I, Undergraduate, 2016 - 2017
MÜHENDİSLİK MATEMATİÇİ II, Undergraduate, 2016 - 2017
DİFERANSİYEL DENKLEMLER, Undergraduate, 2015 - 2016
MÜHENDİSLİK MATEMATİÇİ, Undergraduate, 2015 - 2016
MÜHENDİSLİK MATEMATİÇİ-1, Undergraduate, 2015 - 2016
DİFERANSİYEL DENKLEMLER, Undergraduate, 2015 - 2016

Advising Theses

Ekici M., Belirsiz Katsayılar Metoduyla Bazı Nonlinear Kısımlı Diferansiyel Denklemlerin Optik Soliton Çözümleri ve Korunum Kanunları, Postgraduate, A.ŞENATLI(Student), 2023
Ekici M., Bazı nonlinear kısımlı 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 kudryashov modeli 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 KIRİLMALI FİBERLERDE OPTİK SOLİTONLAR, Postgraduate, H.BÖLKÜBAŞI(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. 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)
- II. 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)

- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Optical Soliton Perturbation with Generalized Quadratic-Cubic Nonlinearity by Semi-Inverse Variation**
 Biswas A., Yıldırım Y., EKİCİ M., Aphane M., Moshokoa S. P., Alshehri H. M.
OPTICS AND SPECTROSCOPY, vol.130, no.4, pp.244-247, 2022 (SCI-Expanded)
- IX. **Stationary optical solitons with complex Ginzburg-Landau equation having nonlinear chromatic dispersion**
 Yalçın A. M., EKİCİ M.
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.3, 2022 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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., Yıldırım Y., Alshehri H. M.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.16, no.1-2, pp.58-60, 2022 (SCI-Expanded)
- XIV. **Cubic-quartic solitons in couplers with optical metamaterials having dual-power law of nonlinearity**
 Zayed E. M. E., Alngar M. E. M., Biswas A., Yıldırım Y., EKİCİ M., Alshehri H. M., Belic M. R.
OPTIK, vol.247, 2021 (SCI-Expanded)
- XV. **Cubic-quartic solitons in couplers with optical metamaterials having parabolic law nonlinearity**
 Zayed E. M., Alngar M. E., Biswas A., Yıldırım Y., EKİCİ M., Alshehri H. M., Belic M. R.
Optik, vol.247, 2021 (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. **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., Yıldırım Y., Alshehri H. M., Belic M. R.
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.416, 2021 (SCI-Expanded)
- XVIII. **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)
- XIX. **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., Belić M. R.
Results in Physics, vol.30, 2021 (SCI-Expanded)
- XX. **Stationary optical solitons with Kudryashov's laws of refractive index**
 EKİCİ M., SÖNMEZOĞLU A., Biswas A.
CHAOS SOLITONS & FRACTALS, vol.151, 2021 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **Time-dependent coupled complex short pulse equation: Invariant analysis and complexiton**
 Kumar V., Biswas A., EKİCİ M., Moraru L., Alzahrani A. K., Belic M. R.
CHAOS SOLITONS & FRACTALS, vol.150, 2021 (SCI-Expanded)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- 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. **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)
- XLV. 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)
- XLVI. 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)
- XLVII. 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)
- XLVIII. 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)
- XLIX. 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)
- L. 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)
- LI. 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)
- LII. 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)
- LIII. 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)
- LIV. 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)
- LV. 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.
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS, vol.65, no.11, pp.1267-1287, 2020 (SCI-Expanded)
- LVI. 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)
- LVII. 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)

- LVIII. **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)
- LIX. **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)
- LX. **Solitions 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)
- LXI. **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)
- 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. **Optical solitons and conservation laws with generalized 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.139, 2020 (SCI-Expanded)
- LXIV. **Optical soliton perturbation with Chen-Lee-Liu equation**
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- LXVI. **Optical solitons with Sasa-Satsuma equation**
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- LXXXIII. **Exhibit of highly dispersive optical solitons in birefringent fibers with four forms of nonlinear refractive index by exp-function expansion**
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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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- XCIV. **Optical solitons and conservation laws of Kudryashov's equation using undetermined coefficients**
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- CXXXVI. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended Jacobi's elliptic function expansion**
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- CXLI. **Highly dispersive optical solitons with Kerr law nonlinearity by F-expansion**
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- CXLII. **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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- CXLIII. **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.
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- CXLIV. **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.

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- CXLV. **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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- CXLVI. **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.
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Metrics

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