

# Prof. ABDULLAH SÖNMEZOĞLU

## Personal Information

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## International Researcher IDs

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ScopusID: 54795960100

Yoksis Researcher ID: 106561

## Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1996 - 2005

Postgraduate, Tokat Gaziosmanpaşa University, Graduate School Of Natural And Applied Sciences, Matematik (YI) (Tezli), Turkey 1993 - 1996

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 1989 - 1993

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Fourier serileri ile bu serilerin conjugate serilerinin mutlak genelleştirilmiş nörlund toplanabilirliği, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2005

Postgraduate, Fourier serilerin mutlak nörlund toplanabilirliği, Tokat Gaziosmanpaşa University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1996

## Research Areas

Mathematics, Differential Equations

## Academic Titles / Tasks

Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2023 - Continues

Associate Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2018 - 2023

Assistant Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2007 - 2018

Lecturer, Erciyes University, Yozgat Fen-Edebiyat Fakültesi, Matematik Pr., 2000 - 2007

Research Assistant, Erciyes University, Yozgat Fen-Edebiyat Fakültesi, Matematik Pr., 1996 - 2000

Research Assistant, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 1994 - 1995

## Academic and Administrative Experience

Yozgat Bozok University, 2008 - Continues

Deputy Head of Department, Yozgat Bozok University, 2017 - 2022

Yozgat Bozok University, 2016 - 2017

Yozgat Bozok University, 2008 - 2016

## Courses

Analiz IV, Undergraduate, 2023 - 2024

Olasılık Teorisi, Undergraduate, 2023 - 2024

Uzmanlık Alan Dersi, Postgraduate, 2023 - 2024

Tez Çalışması, Postgraduate, 2023 - 2024

Olasılık ve İstatistik II, Undergraduate, 2023 - 2024

Bitirme Tezi II, Undergraduate, 2023 - 2024

olasılık, Undergraduate, 2023 - 2024

Biyoistatistik, Undergraduate, 2023 - 2024

Olasılık ve İstatistik I, Undergraduate, 2023 - 2024

Tez Çalışması I, Postgraduate, 2023 - 2024

Bitirme Tezi I, Undergraduate, 2023 - 2024

İstatistik Grafik ifade Metotları, Undergraduate, 2023 - 2024

Analiz III, Undergraduate, 2023 - 2024

Uzmanlık Alan Dersi I, Postgraduate, 2023 - 2024

Biyoistatistik, Undergraduate, 2023 - 2024

istatistik, Undergraduate, 2023 - 2024

İleri Analiz I, Postgraduate, 2023 - 2024

Kompleks Fonksiyonlar Teorisi II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014

Olasılık ve İstatistik II, Undergraduate, 2020 - 2021, 2015 - 2016, 2014 - 2015, 2013 - 2014

Analiz 4, Undergraduate, 2020 - 2021

Uzmanlık Alan Dersi I, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014

İstatistik grafik ifade metotları, Undergraduate, 2020 - 2021, 2017 - 2018, 2016 - 2017

Tez Çalışması I, Postgraduate, 2020 - 2021, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Olasılık ve İstatistik I, Undergraduate, 2020 - 2021, 2015 - 2016, 2014 - 2015, 2013 - 2014

İleri Analiz I, Postgraduate, 2020 - 2021, 2016 - 2017, 2014 - 2015, 2013 - 2014

Analiz III, Undergraduate, 2020 - 2021, 2018 - 2019, 2013 - 2014

İleri Analiz II, Postgraduate, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2014 - 2015, 2013 - 2014

Tez Çalışması II, Postgraduate, 2020 - 2021, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Uzmanlık Alan Dersi II, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015

Kompleks Fonksiyonlar Teorisi I, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2014 - 2015, 2013 - 2014

Analiz II, Undergraduate, 2019 - 2020

MAT 597 TEZ ÇALIŞMASI, Postgraduate, 2019 - 2020

KOMPLEKS ANALİZ I, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016

İSTATİSTİK GRAFİK VE İFADE METOTLARI, Undergraduate, 2019 - 2020, 2018 - 2019

MAT 598 Tez Çalışması, Postgraduate, 2019 - 2020

ANALİZ I, Undergraduate, 2019 - 2020

Genel Matematik II, Undergraduate, 2019 - 2020, 2017 - 2018

Seminer, Postgraduate, 2019 - 2020

Mühendislik Matematiği I, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015

Kompleks Analiz II, Postgraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016

Analiz IV, Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014

Tez Çalışması II, Doctorate, 2017 - 2018, 2016 - 2017

Tez Çalışması, Doctorate, 2017 - 2018  
Uzmanlık Alan Dersi, Doctorate, 2017 - 2018, 2016 - 2017  
Genel Matematik I, Undergraduate, 2017 - 2018, 2014 - 2015  
Uzmanlık Alan Dersi, Postgraduate, 2017 - 2018, 2016 - 2017  
Mühendislik Matematiği II, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015  
Tez Çalışması, Postgraduate, 2017 - 2018  
Uzmanlık Alan Dersi II, Doctorate, 2017 - 2018  
Diferansiyel Denklemler, Undergraduate, 2016 - 2017  
Bitirme Tezi I, Undergraduate, 2016 - 2017, 2014 - 2015  
Matematik II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Matematik I, Undergraduate, 2016 - 2017, 2014 - 2015  
Yüksek Matematik I, Undergraduate, 2016 - 2017  
Tez Çalışması I, Doctorate, 2016 - 2017  
Bilimsel Araştırma İlkeleri, Postgraduate, 2016 - 2017  
Bitirme Tezi II, Undergraduate, 2016 - 2017, 2014 - 2015  
İSTATİSTİK GRAFİK İFADE ETME METOTLARI, Undergraduate, 2015 - 2016, 2014 - 2015  
MÜHENDİSLİK İÇİN OLASILIK TEORİSİ, Undergraduate, 2014 - 2015, 2013 - 2014  
ANALİZ III(2.ÖĞRETİM), Undergraduate, 2013 - 2014  
KOMPLEKS FONKSİYONLAR TEORİSİ I(2.ÖĞRETİM), Undergraduate, 2013 - 2014  
KOMPLEKS FONKSİYONLAR TEORİSİ II(2.ÖĞRETİM), Undergraduate, 2013 - 2014  
OLASILIK VE İSTATİSTİK II(2.ÖĞRETİM), Undergraduate, 2013 - 2014  
OLASILIK VE İSTATİSTİK I(2.ÖĞRETİM), Undergraduate, 2013 - 2014  
ANALİZ IV(2.ÖĞRETİM), Undergraduate, 2013 - 2014

## Advising Theses

Sönmezoğlu A., Resonant nonlinearliğe sahip nonlinear Schrödinger denklemlerinin soliton çözümleri, Postgraduate, A.AKHİLAL(Student), 2024  
Sönmezoğlu A., Bazı İntegrasyon Algoritmaları ile LPD Modeline Optik Solitonlar, Postgraduate, Y.KORKMAZ(Student), 2024  
Sönmezoğlu A., F-AÇILIM METODU VE SCHRÖDİNGER KDV DENKLEMİNİN YENİ TAM ÇÖZÜMLERİ, Postgraduate, M.BELGİN(Student), 2023  
Sönmezoğlu A., Yüksek mertebeden dispersif optik solitonların analitik çalışması, Postgraduate, O.NAZLI(Student), 2022  
Sönmezoğlu A., Cauchy and goursat problems for second-order partial differential equations and the solution of these problems, Postgraduate, M.CEYLAN(Student), 2022  
Sönmezoğlu A., Üstel açılım metoduyla pertürbe edilmiş lineer olmayan schrödinger denkleminin tam çözümlerinin araştırılması, Postgraduate, A.KARAOĞLAN(Student), 2022  
Sönmezoğlu A.,  $(g'/g)$ -açılım yöntemleri ile  $(2+1)$  boyutlu kırılma soliton denklemlerinin soliton ve diğer çözümleri, Postgraduate, A.PAKSOY(Student), 2021  
SÖNMEZOĞLU A., Katlı Fourier Serilerinin Nörlund Toplanabilmesi, Postgraduate, M.UÇAR(Student), 2020  
SÖNMEZOĞLU A., On the absolute Euler summability of Fourier series, Postgraduate, B.ELTURAN(Student), 2018  
SÖNMEZOĞLU A., Olasılık ve Fourier serilerinin  $(C,r)$  toplanabilmesi, Postgraduate, S.KARAKOÇ(Student), 2018  
SÖNMEZOĞLU A., Esnek matrisler kullanılarak elde edilen bazı karar verme metotları ve uygulamaları, Doctorate, H.KAMACI(Student), 2018  
SÖNMEZOĞLU A., Ortogonal Serilerin Mutlak Genelleştirilmiş Hausdorff Toplanabilmesi Üzerine, Postgraduate, İ.AKGÜN(Student), 2018  
SÖNMEZOĞLU A., Fourier serilerinin Hausdorff toplanabilmesi, Postgraduate, N.AĞCA(Student), 2016  
SÖNMEZOĞLU A., Jacobi eliptik fonksiyon metodu ile lineer olmayan bazı lineer olmayan dalga denklemlerinin çözümü, Postgraduate, M.FATİH(Student), 2016  
SÖNMEZOĞLU A., Fourier serilerinin mutlak Hausdorff toplanabilmesi üzerine, Postgraduate, H.ÖZARSLAN(Student),

2016

SÖNMEZOĞLU A., Genelleştirilmiş Quasi-Nörlund toplanabilme üzerine, Postgraduate, K.BAŞAR(Student), 2015

SÖNMEZOĞLU A., Hausdorff toplanabilme metodu, Postgraduate, H.ÖZTÜRK(Student), 2013

SÖNMEZOĞLU A., Nörlund toplanabilme metodu, Postgraduate, T.COŞKUN(Student), 2012

SÖNMEZOĞLU A., Genelleştirilmiş nörlund toplanabilme metodu, Postgraduate, E.SERİN(Student), 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **Stationary optical solitons having Kudryashov's quintuple power law nonlinearity by extended G'/G-expansion**  
SÖNMEZOĞLU A.  
OPTIK, vol.253, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Stationary optical solitons with Kudryashov's laws of refractive index**  
EKİCİ M., SÖNMEZOĞLU A., Biswas A.  
CHAOS SOLITONS & FRACTALS, vol.151, 2021 (SCI-Expanded)
- VII. **Stationary optical solitons with cubic-quartic law of refractive index and nonlinear chromatic dispersion**  
SÖNMEZOĞLU A., EKİCİ M., Biswas A.  
PHYSICS LETTERS A, vol.410, 2021 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **Optical solitons with Kudryashov's equation by extended trial function**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alshomrani A. S., Belic M. R.  
OPTIK, vol.202, 2020 (SCI-Expanded)
- XI. **Optical solitons with Kudryashov's equation by F-expansion**  
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S., Belic M. R.  
OPTIK, vol.199, 2019 (SCI-Expanded)
- XII. **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.  
OPTIK, vol.195, 2019 (SCI-Expanded)

- XIII. **Optical solitons in fiber Bragg gratings with dispersive reflectivity for cubic-quintic-septic nonlinearity by extended trial function**  
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S., Belic M. R.  
OPTIK, vol.194, 2019 (SCI-Expanded)
- XIV. **Highly dispersive singular optical solitons with Kerr law nonlinearity by Jacobi's elliptic ds function expansion**  
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Alshomrani A. S., Belic M. R.  
OPTIK, vol.192, 2019 (SCI-Expanded)
- XV. **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.  
OPTIK, vol.192, 2019 (SCI-Expanded)
- XVI. **Highly dispersive optical solitons in absence of self-phase modulation by F-expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alshomrani A. S.  
OPTIK, vol.187, pp.258-271, 2019 (SCI-Expanded)
- XVII. **Solitons in optical fiber Bragg gratings with dispersive reflectivity by extended trial function method**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.182, pp.88-94, 2019 (SCI-Expanded)
- XVIII. **Highly dispersive optical solitons with quadratic-cubic law by F-expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.182, pp.930-943, 2019 (SCI-Expanded)
- XIX. **Highly dispersive optical solitons with cubic-quintic-septic law by F-expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.182, pp.897-906, 2019 (SCI-Expanded)
- XX. **Optical solitons in (2+1)-Dimensions with Kundu-Mukherjee-Naskar equation by extended trial function scheme**  
EKİCİ M., SÖNMEZOĞLU A., Biswas A., Belic M. R.  
CHINESE JOURNAL OF PHYSICS, vol.57, pp.72-77, 2019 (SCI-Expanded)
- XXI. **Optical solitons in birefringent fibers with four-wave mixing for quadratic-cubic nonlinearity by F-expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alfiras M.  
OPTIK, vol.178, pp.178-189, 2019 (SCI-Expanded)
- XXII. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended Jacobi's elliptic function expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M.  
OPTIK, vol.178, pp.117-121, 2019 (SCI-Expanded)
- XXIII. **Soliton solutions and conservation laws of a (3+1)-dimensional nonlinear evolution equation**  
Ekici M., Sonmezoglu A., Adem A. R., Zhou Q., Luan Z., Liu S., Mirzazadeh M., Liu W.  
Acta Physica Polonica A, vol.135, no.3, pp.539-545, 2019 (SCI-Expanded)
- XXIV. **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.  
OPTIK, vol.189, pp.109-120, 2019 (SCI-Expanded)
- XXV. **Highly dispersive optical solitons with non-local nonlinearity by extended Jacobi's elliptic function expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.184, pp.277-286, 2019 (SCI-Expanded)
- XXVI. **Highly dispersive optical solitons in absence of self-phase modulation by exp-function**

- Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.186, pp.436-442, 2019 (SCI-Expanded)
- XXVII. **Highly dispersive optical solitons with cubic-quintic-septic law by extended Jacobi's elliptic function expansion**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.183, pp.571-578, 2019 (SCI-Expanded)
- XXVIII. **Optical solitons in birefringent fibers having anti-cubic nonlinearity with extended trial function**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.185, pp.456-463, 2019 (SCI-Expanded)
- XXIX. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended trial function scheme**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M.  
OPTIK, vol.176, pp.542-548, 2019 (SCI-Expanded)
- XXX. **Highly dispersive optical solitons with Kerr law nonlinearity by F-expansion**  
Biswas A, Ekicid M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.181, pp.1028-1038, 2019 (SCI-Expanded)
- XXXI. **Highly dispersive optical solitons with cubic-quintic-septic law by It Check for exp-expansion**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.186, pp.321-325, 2019 (SCI-Expanded)
- XXXII. **Highly dispersive optical solitons with kerr law nonlinearity by extended Jacobi's elliptic function expansion**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.183, pp.395-400, 2019 (SCI-Expanded)
- XXXIII. **Exact chirped singular soliton solutions of Triki-Biswas equation**  
Zhou Q, EKÍCÍ M., SÖNMEZOĞLU A.  
OPTIK, vol.181, pp.338-342, 2019 (SCI-Expanded)
- XXXIV. **Highly dispersive optical solitons with quadratic-cubic law by exp-function**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.186, pp.431-435, 2019 (SCI-Expanded)
- XXXV. **Optical solitons with Biswas-Arshed equation by extended trial function method**  
EKÍCÍ M., SÖNMEZOĞLU A.  
OPTIK, vol.177, pp.13-20, 2019 (SCI-Expanded)
- XXXVI. **Optical solitons and conservation law in birefringent fibers with Kundu-Eckhaus equation by extended trial function method**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Kara A. H.  
OPTIK, vol.179, pp.471-478, 2019 (SCI-Expanded)
- XXXVII. **Optical solitons in fiber Bragg gratings with dispersive reflectivity for parabolic law nonlinearity by extended trial function method**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.183, pp.595-601, 2019 (SCI-Expanded)
- XXXVIII. **Optical solitons in birefringent fibers with quadratic-cubic nonlinearity by extended  $G'/G$ -expansion scheme**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M.  
OPTIK, vol.178, pp.59-65, 2019 (SCI-Expanded)
- XXXIX. **Optical solitons in birefringent fibers haying anti-cubic nonlinearity with exp-function**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.186, pp.363-368, 2019 (SCI-Expanded)
- XL. **Chirped and chirp-free optical solitons with generalized anti-cubic nonlinearity by extended trial function scheme**  
Biswas A, EKÍCÍ M., SÖNMEZOĞLU A., Belic M.  
OPTIK, vol.178, pp.636-644, 2019 (SCI-Expanded)

- XLI. Highly dispersive optical solitons with non-local nonlinearity by exp-function**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.186, pp.288-292, 2019 (SCI-Expanded)
- XLII. Optical solitons in fiber Bragg gratings with dispersive reflectivity for quadratic cubic nonlinearity by extended trial function method**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.185, pp.50-56, 2019 (SCI-Expanded)
- XLIII. Highly dispersive optical solitons with Kerr law nonlinearity by exp-function**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.185, pp.121-125, 2019 (SCI-Expanded)
- XLIV. Highly dispersive optical solitons with non-local nonlinearity by F-expansion**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Belic M. R.  
OPTIK, vol.183, pp.1140-1150, 2019 (SCI-Expanded)
- XLV. Optical soliton perturbation with full nonlinearity by extended trial function method**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Arshed S., Belic M.  
OPTICAL AND QUANTUM ELECTRONICS, vol.50, no.12, 2018 (SCI-Expanded)
- XLVI. Solitons in optical metamaterials with anti-cubic nonlinearity**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, no.5, 2018 (SCI-Expanded)
- XLVII. Analysis of optical solitons in nonlinear negative-indexed materials with anti-cubic nonlinearity**  
EKİCİ M., SÖNMEZOĞLU A., Zhou Q., Moshokoa S. P., Ullah M. Z., Arnous A. H., Biswas A., Belic M.  
OPTICAL AND QUANTUM ELECTRONICS, vol.50, no.2, 2018 (SCI-Expanded)
- XLVIII. Chirped optical solitons of Chen-Lee-Liu equation by extended trial equation scheme**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alshomrani A. S., Zhou Q., Moshokoa S. P., Belic M.  
OPTIK, vol.156, pp.999-1006, 2018 (SCI-Expanded)
- XLIX. Optical soliton perturbation for Gerdjikov-Ivanov equation by extended trial equation method**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Majid F. B., Triki H., Zhou Q., Moshokoa S. P., Belic M.  
OPTIK, vol.158, pp.747-752, 2018 (SCI-Expanded)
- L. Optical soliton perturbation with fractional temporal evolution by extended  $G'/G$ -expansion method**  
Biswas A., SÖNMEZOĞLU A., EKİCİ M., Mirzazadeh M., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.  
OPTIK, vol.161, pp.301-320, 2018 (SCI-Expanded)
- LI. Optical soliton perturbation with full nonlinearity for Fokas-Lenells equation**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alqahtani R. T.  
OPTIK, vol.165, pp.29-34, 2018 (SCI-Expanded)
- LII. Optical solitons in birefringent fibers with weak non-local nonlinearity and four-wave mixing by extended trial equation method**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Babatin M. M.  
OPTIK, vol.166, pp.285-293, 2018 (SCI-Expanded)
- LIII. Optical solitons with differential group delay for coupled Fokas-Lenells equation by extended trial function scheme**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A., Alqahtani R. T.  
OPTIK, vol.165, pp.102-110, 2018 (SCI-Expanded)
- LIV. Gaussian solitary waves to Boussinesq equation with dual dispersion and logarithmic nonlinearity**  
Biswas A., EKİCİ M., SÖNMEZOĞLU A.  
NONLINEAR ANALYSIS-MODELLING AND CONTROL, vol.23, no.6, pp.942-950, 2018 (SCI-Expanded)
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### II. ANALYSIS OF OPTICAL SOLITON SOLUTIONS OF A (2+1)-DIMENSIONAL MODEL

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