

## Asst. Prof. NİSA ÇELİK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABD-1401-2020

ScopusID: 36005160000

Yoksis Researcher ID: 156628

### Education Information

Doctorate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Turkey 1991 - 1998

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Turkey 1989 - 1991

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Turkey 1984 - 1988

### Dissertations

Doctorate, Hiperkompleks monojen ve bölgesel monojen fonksiyonlar, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 1998

Postgraduate, Genelleştirilmiş Analitik Fonksiyonlar, Bursa Uludağ University, 1991

### Research Areas

Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2001 - Continues

Lecturer, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 1998 - 2001

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 1989 - 1998

### Courses

Tez Danışmanlığı !V, Postgraduate, 2023 - 2024

DIFFERENTIAL EQUATIONS II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

YL Uzmanlık Alan Dersi IV, Postgraduate, 2023 - 2024

Differential Equations, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Tez Danışmanlığı III, Postgraduate, 2023 - 2024

Differential Equations I, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021

Yüksek Lisans Uzmanlık Alan Dersi III, Postgraduate, 2023 - 2024  
Applications of Maple, Postgraduate, 2022 - 2023, 2021 - 2022  
Tez Danışmanlığı II, Postgraduate, 2021 - 2022  
Thesis Consulting I, Postgraduate, 2022 - 2023, 2021 - 2022  
Advanced Topics in MSC thesis I, Postgraduate, 2022 - 2023, 2021 - 2022  
Postgraduate, 2021 - 2022  
Postgraduate, 2021 - 2022  
YL Uzmanlık Alan Dersi II, Postgraduate, 2021 - 2022  
Special Topics with Maple , Undergraduate, 2020 - 2021, 2019 - 2020  
Diferensiyel Denklemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Integral Transformation, Undergraduate, 2020 - 2021

## Advising Theses

ÇELİK N., A model of solitary waves in a magnetic-electric-elastic circular rod : Analytical and numerical solutions, Postgraduate, M.Samir(Student), 2021  
ÇELİK N., Bergman integral operator, Postgraduate, B.Canan(Student), 2004

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

- I. **New exact solution forms and stability aspects to Drinfel'd–Sokolov–Wilson model by using extended Jacobi elliptic rational function approach**  
ÇELİK N.  
Pramana - Journal of Physics, vol.98, no.2, 2024 (SCI-Expanded)
- II. **Applications of two kinds of Kudryashov methods for time fractional (2+1) dimensional Chaffee-Infante equation and its stability analysis**  
Tetik D., AKBULUT A., Celik N.  
OPTICAL AND QUANTUM ELECTRONICS, vol.56, no.4, 2024 (SCI-Expanded)
- III. **New dynamical analysis of the exact traveling wave solutions to a (3+1)-dimensional Gardner-KP equation by three efficient architecture**  
ÇELİK N., Tetik D.  
Chaos, Solitons and Fractals, vol.179, 2024 (SCI-Expanded)
- IV. **A model of solitary waves in a nonlinear elastic circular rod: Abundant different type exact solutions and conservation laws**  
Çelik N., Seadawy A. R., Sağlam Özkan Y., Yaşar E.  
Chaos, Solitons and Fractals, vol.143, 2021 (SCI-Expanded)
- V. **Nonlinear Schrodinger equations with spatio-temporal dispersion in Kerr, parabolic, power and dual power law media: A novel extended Kudryashov's algorithm and soliton solutions**  
Yildirim Y., ÇELİK N., YAŞAR E.  
RESULTS IN PHYSICS, vol.7, pp.3116-3123, 2017 (SCI-Expanded)
- VI. **Special functions in transferring of energy; a specific case: "Airy function"**  
Eroglu E., AK N., KÖKLÜ K., Ozdemir Z. O., ÇELİK N., Eren N.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.30, no.1, pp.719-726, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of Bifurcation Analysis and Soliton Solutions to the Longitudinal Wave Equation in a**

### **Magneto-Electro-Elastic Circular Rod**

Çelik N., Yaşar E.

Journal of Applied Nonlinear Dynamics, vol.12, no.4, pp.767-780, 2023 (ESCI)

### **II. On Exact Solutions of Magneto-Electro-Elastic Rods Equation**

Çelik N., Yaşar E.

International Journal of Applied and Computational Mathematics, vol.9, no.5, 2023 (Scopus)

### **III. Lineer Olmayan Elektro Elastik (EE) Denklemnin ( $G'/G$ ) Yöntemi ile Tam Çözümlerinin Elde Edilmesi ÇELİK N.**

Uluslararası Bilim, Teknoloji ve Tasarım Dergisi, vol.2, no.1, pp.52-68, 2021 (Peer-Reviewed Journal)

### **IV. Exact Solutions of Electro-Elastic Rod Model with ( $G' G$ ) Expansion Method**

Çelik N., Özcan M. S.

ULUSLARARASI BİLİM, TEKNOLOJİ VE TASARIM DERGİSİ, vol.2, no.1, pp.51-68, 2021 (Peer-Reviewed Journal)

### **V. On the exact and numerical solutions to a new ( $2 + 1$ )-dimensional Korteweg-de Vries equation with conformable derivative**

Sağlam Özkan Y., Yaşar E., Çelik N.

Nonlinear Engineering, vol.10, no.1, pp.46-65, 2021 (ESCI)

### **VI. Magneto-Elektro-Elastik Çubuk Modelinin F Açılım Metodu ile Tam çözümleri**

ÇELİK N.

BEÜ Fen Bilimleri Dergisi, vol.10, no.2, pp.375-392, 2021 (Peer-Reviewed Journal)

### **VII. Hypercomplex monogenic and areolar monogenic functions**

ÇAĞLIYAN M., ÇELİK N.

RADOVI MATEMATICKI, no.10, pp.29-36, 2001 (Peer-Reviewed Journal)

## **Books & Book Chapters**

### **I. Adi Diferensiyel Denklemler**

Çağlıyan M., Çelik N., Doğan S.

Dora, Bursa, 2022

### **II. Sayılar**

ÇELİK B., EZENTAŞ R., BOZYOKUŞ H., ÖZDEN H., ÇELİK N.

in: Mesleki Matematik, BASRİ ÇELİK, Editor, Dora, Bursa, pp.36-91, 2016

### **III. Birinci ve İkinci Derece Eşitsizlikler**

ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O., ÖZTÜRK M.

in: Temel Matematik, ÇELİK BASRİ, Editor, Dora Yayıncılık, Bursa, pp.175-189, 2016

### **IV. Matrisler, Determinantlar ve Lineer Denklem Sistemleri**

BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN AYNA H.

in: MESLEKİ MATEMATİK, Basri ÇELİK, Editor, Dora, Bursa, pp.273-316, 2016

### **V. Türev**

ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O., ÖZTÜRK M.

in: Temel Matematik, ÇELİK BASRİ, Editor, Dora Yayıncılık, Bursa, pp.375-426, 2016

### **VI. Konikler**

ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O., ÖZTÜRK M.

in: Temel Matematik, ÇELİK BASRİ, Editor, Dora Yayıncılık, Bursa, pp.211-244, 2016

### **VII. Diferensiyel Denklemler**

ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O.

in: Temel Matematik, Basri ÇELİK, Editor, Dora, Bursa, pp.559-592, 2016

### **VIII. Ön Bilgiler**

BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN H.

in: Mesleki Matematik, BASRİ ÇELİK, Editor, Dora Yayıncılık, Bursa, pp.1-34, 2016

### **IX. Temel İstatistik Kavramları**

ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O., ÖZTÜRK M.  
in: Temel Matematik, ÇELİK BASRİ, Editor, Dora Yayıncılık, Bursa, pp.593-682, 2016

- X. **Temel Geometrik Kavramlar**  
BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN H.  
in: Mesleki Matematik, Çelik, Basri, Editor, Dora Yayıncılık, Bursa, pp.183-271, 2016
- XI. **Basit Denklem ve Eşitsizlik Sistemleri**  
BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN H.  
in: Mesleki Matematik, Basri ÇELİK, Editor, Dora, Bursa, pp.164-180, 2016
- XII. **EŞİTSİZLİKLER**  
BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN AYNA H.  
in: Mesleki Matematik, ÇELİK BASRİ, Editor, Dora, pp.126-146, 2016
- XIII. **Denklemler**  
BOZYOKUŞ H., ÇELİK B., ÇELİK N., EZENTAŞ R., ÖZDEN H.  
in: Mesleki Matematik, Basri Çelik, Editor, Dora, Bursa, pp.92-137, 2016
- XIV. **Türevin Uygulamaları**  
ÇELİK B., CANGÜL İ. N., ÇELİK N., BİZİM O.  
in: Temel Matematik, Basri ÇELİK, Editor, Dora, Bursa, pp.427-628, 2016

### Refereed Congress / Symposium Publications in Proceedings

- I. **Exact Traveling Wave Solutions for the non-linear couple Drinfeld-Sokolov-Wilson (DSW) Dynamical System Using Extended Jacobi Elliptic Function Expansion Method**  
ÇELİK N.  
2nd International Symposium On Current Developments In Fundamental And Applied Mathematics Sciences (IsCDFAMS 2023), Ankara, Turkey, 14 - 17 November 2023, pp.72-73
- II. **NONLINEAR MODELS IN OCEAN ENGINEERING: EXACT SOLUTIONS, 3D AND 2D SIMULATIONS OF THE GENERAL DRINFIEL'D-SOKOLOV-WILSON SYSTEM WITH JACOBI ELLIPTIC FUNCTIONS**  
Çelik N.  
MAS International Congress on Mathematics, Engineering, Natural & Medical Sciences, Ankara, Turkey, 14 - 15 August 2023, pp.112-119
- III. **GENELLEŞTİRİLMİŞ KUDRYASHOV METODU İLE (3+1)-BOYUTLU GARDNER-KP DENKLEMİNİN TAM ÇÖZÜMLERİ, KARARLILIK ÖZELLİKLERİ**  
Çelik N., Tetik D.  
EURASIA INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Quba, Azerbaijan, 21 July 2023, pp.193-200
- IV. **JACOBI ELLIPTIC FUNCTION EXPANSION METHOD FOR SOLVING A NEW EXTENDED (2+1)-DIMENSIONAL BOUSSINESQ EQUATION**  
ÇELİK N.  
ISPEC 14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Sivas, Turkey, 18 July 2022, pp.305-315
- V. **Bölgesel Monojen Fonksiyonlar Üzerine**  
ÇELİK N.  
Doç.Dr.Eyüp Sabri TÜRKER Anısına Matematik Sempozyumu, ADAPAZARI, Turkey, 19 October 2000
- VI. **Hiperkompleks Bölgesel Monojen Fonksiyonlar**  
ÇELİK N.  
XII. Ulusal Matematik Sempozyumu, 06 September 1999
- VII. **Özel Hiperkompleks Monojen Fonksiyonlar**  
ÇELİK N.  
XI. Ulusal Matematik Sempozyumu, Isparta, Turkey, 07 September 1998, pp.157

## **Tasks In Event Organizations**

Çelik N., ISCDFAMS-2023, Scientific Congress, Ankara, Turkey, Kasım 2023

### **Metrics**

Publication: 36

Citation (WoS): 134

Citation (Scopus): 148

H-Index (WoS): 4

H-Index (Scopus): 4