Res. Asst. PhD GÜLCAN ÖZKUM



Personal Information

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International Researcher IDs
ORCID: 0000-0002-8426-4673
Publons / Web Of Science ResearcherID: F-5574-2018
Yoksis Researcher ID: 155803

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2001 - 2010
Postgraduate, Kocaeli University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1996 - 2000
Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1992 - 1996

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Personal Evolution, EFELİK BELGESİ (SERTİFİKASI), İZMİT'iN EFELERİ FOLKLOR GRUBU-İzmit /Kocaeli,, 2016
Vocational Training, Ögretmenlik Sertifikası (24 kredilik Ögretmenlik Formasyon Kursu), Sakarya Üniversitesi Egitim Fakültesi, 1997

Dissertations

Doctorate, Beşinci mertebeden (1+1)-boyutta integre edilebilir evrim denklemlerinin sınıflandırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2010
Postgraduate, Gamma halkaları üzerinde türevler, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2000

Research Areas

Mathematics, Health Sciences, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2010 - Continues
Research Assistant, Istanbul Technical University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2002 - 2008
Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 1997 - 2002

Academic and Administrative Experience

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2017 - 2018
Uyum Komisyonu Üyesi, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2009 - 2011

Courses

Öğretmenlik Uygulaması- Rektörlük RBB/UZEM (23-24 Güz), Undergraduate, 2023 - 2024
Lineer Cebir-Müh. Fak/Bilgisayar Müh. (İ.Ö.) (23-24 Güz), Undergraduate, 2023 - 2024
Matematik II - Otomotiv Müh., Undergraduate, 2022 - 2023
Matematik II -(A+B Grubu), Undergraduate, 2022 - 2023
Temel Matematik - Sağlık Bil. Fak / Sos.Hizmet, Undergraduate, 2023 - 2024
Diferansiyel Denklemler Müh. Fak/Bilg. Müh. (İÖ) (23-24 Güz), Undergraduate, 2023 - 2024
Lineer Cebir-Müh. Fak/Bilgisayar Müh. (1.Ö.) (23-24 Güz), Undergraduate, 2023 - 2024
Diferansiyel Denklemler Müh. Fak/Bilgisayar Müh. (1. öğrt. 23-24 Güz), Undergraduate, 2023 - 2024
Matematik II -(A+B Grubu)-Müh. Fak/Elektrik Müh. (İ.Ö), Undergraduate, 2022 - 2023
Diferansiyel Denklemler- Teknoloji Fak/Enerji Sist. Müh (23-24 Güz), Undergraduate, 2023 - 2024
Matematik II- (II.ÖĞRT.)- Elekt. Müh., Undergraduate, 2021 - 2022
Diferansiyel Denklemler (II. Öğrt.)/Bilgisayar Müh., Undergraduate, 2022 - 2023
Matematik I (I.Öğrt)- Otomotiv. Müh., Undergraduate, 2022 - 2023
Matematik II- Elekt. Müh., Undergraduate, 2021 - 2022
Matematik I (I.Öğrt.) (A+B Grupları)- Elekt. Müh., Undergraduate, 2022 - 2023
Matematik II -İnş. Müh., Undergraduate, 2021 - 2022
Temel Matematik-Sağlık Bil.Fak/Sos.Hizmet, Undergraduate, 2022 - 2023
Diferansiyel Denklemler (I.Öğrt.)-Bilgisayar Müh., Undergraduate, 2022 - 2023
Diferansiyel Denklemler -(II.Öğrt.) B Grubu , Undergraduate, 2021 - 2022
Diferansiyel Denklemler - (I.Öğrt.) B Grubu, Undergraduate, 2021 - 2022
MATEMATİK- Zir. Fak. / Bitki Koruma, Undergraduate, 2021 - 2022
Diferansiyel Denklemler - (I.Öğrt.) A Grubu, Undergraduate, 2021 - 2022
Diferansiyel Denklemler -(II.Öğrt.) A Grubu, Undergraduate, 2021 - 2022
MATEMATİK- Zir. Fak/Bahçe Bitkileri, Undergraduate, 2021 - 2022
Matematik II -Harita Müh., Undergraduate, 2020 - 2021
Mühendislik Matematiği, Undergraduate, 2021 - 2022
Mühendislik Fakültesi Harita Mühendisliği Bölümü, Undergraduate, 2020 - 2021
Matematik- I Elekt. Müh. (II.Öğrt)-A, Undergraduate, 2020 - 2021
Diferansiyel Denklemler -(II.Öğrt.) Elekt. Müh., Undergraduate, 2020 - 2021
Matematik II - Metalurji ve Malz. Müh. (II Öğrt.), Undergraduate, 2019 - 2020
Diferansiyel Denklemler - (I.Öğrt.) Elekt. Müh.- , Undergraduate, 2020 - 2021
Matematik II -Metalurji ve Malz. Müh. (I.Öğrt.), Undergraduate, 2019 - 2020
Matematik-(10.Sınıf) Kocaeli Ünv. Devlet Kons. Müz.ve Sah.San.Lis., Associate Degree, 2019 - 2020
Matematik I (I.Öğrt) Elekt.Müh.- A, Undergraduate, 2020 - 2021
Matematik - (9.Sınıf) Kocaeli Ünv.Devlet Konservatuarı Müz.ve Sah.San.Lis., Associate Degree, 2019 - 2020
Lineer Cebir -Teknoloji Fak/Biyomedikal Müh., Undergraduate, 2019 - 2020
Matematik -İzmit MYO/Sivil Sav. İtf. (2.Öğretim), Associate Degree, 2019 - 2020

Matematik II- Müh. Fak/Jeoloji Mühendisliği, Undergraduate, 2018 - 2019
Matematik- İzmit MYO/Sivil Savun. ve İtf., Associate Degree, 2019 - 2020
Genel Matematik-Mim. ve Tas. Fak/Mimarlık, Undergraduate, 2018 - 2019
Matematik- İzmit MYO/İş Sağlığı ve Güv. (2.Öğretim), Associate Degree, 2019 - 2020
Matematik-İzmit MYO/İş Sağlığı ve Güv., Associate Degree, 2019 - 2020
Matematik I- Müh. Fak/ÇevreMühendisliği, Undergraduate, 2019 - 2020
Diferansiyel Denklemler-Müh.Fak/Jeofizik Müh., Undergraduate, 2018 - 2019
Lineer Cebir ve Sayısal Analiz-Teknoloji Fak/Otomotiv Müh., Undergraduate, 2017 - 2018
BİLİMSEL HAZIRLIK (MATEMATİK)-BAHAR-TEKNOLOJİ FAK., Undergraduate, 2017 - 2018
Mühendislik Matematiği (1.Öğretim)- Müh.Fak /Çevre Mühendisliği, Undergraduate, 2018 - 2019
Diferansiyel Denklemler- Müh.Fak/Jeoloji Mühendisliği, Undergraduate, 2018 - 2019
Diferansiyel Denklemler-Müh. Fak/Mekatronik Müh, Undergraduate, 2018 - 2019
Mühendislik Matematiği (2.Öğretim)- Müh.Fak /Çevre Mühendisliği, Undergraduate, 2018 - 2019
BİLİMSEL HAZIRLIK (MATEMATİK)-GÜZ-TEKNOLOJİ FAK. , Undergraduate, 2017 - 2018
Matematik-II, Undergraduate, 2011 - 2012
Matematik-I, Undergraduate, 2011 - 2012
Lineer Cebir, Undergraduate, 2011 - 2012
Diferansiyel Denklemler, Undergraduate, 2010 - 2011
Lineer Cebir- Mak. Müh.(2.Öğrt), Undergraduate, 2010 - 2011
Lineer Cebir- Mak. Müh.(1.Öğrt), Undergraduate, 2010 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

I. **An Iterative Solver in the Presence and Absence of Multiplicity for Nonlinear Equations**
Soleymani F., Shateyi S., ÖZKUM G.
SCIENTIFIC WORLD JOURNAL, 2013 (SCI-Expanded)
II. **On the Inverse Problem of the Fractional Heat-Like Partial Differential Equations: Determination of the Source Function**
ÖZKUM G., DEMİR A., Erman S., Korkmaz E., Ozgur B.
ADVANCES IN MATHEMATICAL PHYSICS, vol.2013, 2013 (SCI-Expanded)
III. **On the Classification of Fifth Order Quasi-linear Non-constant Separant Scalar Evolution Equations of the KdV-Type**
ÖZKUM G., BİLGE A. H.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.81, no.5, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. **Approximate Symmetries of Differential Equations**
ÖZKUM G.
Journal of Current Research on Engineering, Science and Technology, 2022 (Peer-Reviewed Journal)
II. **GAMMA RINGS WITH DERIVATION**
ÖZKUM G., SOYTÜRK M.
European International Journal of Science and Technology, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **On A Mathematical Model of Infectious Diseases**
Özkum G.

International Marmara Sciences Congress- IMASCON, Kartepe, Page: 40, Proceedings Book, June 09-10, 2023, Kocaeli, Turkey, 9 - 10 June 2023, pp.0-512

II. **On Stefan Problems and Their Solutions**
Özkum G.
International Marmara Sciences Congress- IMASCON, Kartepe, Page: 38, Proceedings Book, June 09-10, 2023, Kocaeli, Turkey, 9 - 10 June 2023, pp.0-512

III. **A NUMERICAL METHOD FOR SOLVING STEFAN PROBLEMS**
Özkum G.
8th Selçuk International Conference on Applied Sciences, May 19 - 21, 2023 Konya, Page:223-233, Proceedings Book, May 2023, Konya, Turkey, 19 - 21 May 2023, pp.1-484

IV. **The Symmetries of Differential Equations**
ÖZKUM G.
13 th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE), Antalya, Turkey, 26 May 2021

V. **PRIME GAMMA RINGS WITH DERIVATION**
ÖZKUM G.
5. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, Samsun, Turkey, 19 May 2021

VI. **On Gamma Rings with Derivation**
ÖZKUM G., SOYTÜRK M.
2nd INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, ICOLES 2019, İSTANBUL, TURKEY, 27 - 29 June 2019

VII. **DAILY SOLAR RADIATION DATA ASSESSMENT WITH CUBIC SPLINE INTERPOLATION**
ÖZKUM G., ARICI M., SONDAŞ A.
IV. INES International Academic Research Congress (INES - 2018), Alanya, Turkey, 30 October - 03 November 2018

VIII. **The Susceptible-Infected-Removed (Sır) Model: Should We Revert To The Original Integral Equation?**
Özkum G., Bilge A. H.
IV. INES International Academic Research Congress 2018, Antalya, Turkey, 30 October - 03 November 2018

IX. **Integrable Equations of the Sawada Kotera and Kaup Type A New Hierarchy Starting with an Essentially Nonlinear 5th Order Equation**
BİLGE A. H., MİZRAHİ E., ÖZKUM G.
Nonlinear Evolution Equations and Dynamical Systems Conference Series, Santa Margherita di Pula (Ca), 24 - 31 May 2015

X. **Some Generalizations on Prime Gamma Rings with Derivation and Gamma Rings with Module Valued sigma tau Derivation**
ÖZKUM G., SOYTÜRK M.
The International Conference on Algebra in Honour of Patrick SMITH and John CLARK's 70th Birthdays, 12 August 2013 - 15 August 2012, pp.99

XI. **Inverse Problem of the Fractional Heat-like Partial Differential Equations**
DEMİR A., ÖZKUM G., ERMAN S., ÖZGÜR B., BOZTEPE E.
International Congress in Honour of Professor H. M. Srivastava, 23 - 26 August 2012

XII. **Beşinci Mertebeden İntegre Edilebilir Evrim Denklemlerinin Sınıflandırılması Gülcan Özkum Ayşe H Bilge XXII TMD Ulusal Matematik Sempozyumu**
ÖZKUM G., BİLGE A. H.
XXII. TMD ULUSAL MATEMATİK SEMPOZYUMU, İzmir, Turkey, 31 August - 03 September 2009

Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, June 2016
JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Other Indexed Journal, February 2014

Metrics

Publication: 17
Citation (WoS): 14
Citation (Scopus): 15
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

International Marmara Sciences Congress- IMASCON, Attendee, Kocaeli, Turkey, 2023
International Marmara Sciences Congress- IMASCON, Attendee, Kocaeli, Turkey, 2023
8th Selçuk International Conference on Applied Sciences, Attendee, Konya, Turkey, 2023
ThinkBS: Basic Sciences in Engineering Education Erasmus Plus Project, Summer School - Turkey /Kadir Has Üniversitesi, Invited Speaker, İstanbul, Turkey, 2022
ThinkBS: Basic Sciences in Engineering Education Erasmus Plus Project, Summer School - Turkey /Kadir Has Üniversitesi , Attendee, İstanbul, Turkey, 2022
Salgın Hastalıkların Yayılımı için Matematiksel Modeller Yaz Okulu/Feza Gürsey Araştırma Merkezi / Boğaziçi Üniversitesi , Invited Speaker, İstanbul, Turkey, 2021
Salgın Hastalıkların Yayılımı için Matematiksel Modeller Yaz Okulu/Feza Gürsey Araştırma Merkezi / Boğaziçi Üniversitesi , Attendee, İstanbul, Turkey, 2021
13 th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE), Moderator, Antalya, Turkey, 2021
Salgın Hastalıkların Yayılımı Yaz Okulu/ Feza Gürsey Araştırma Merkezi / Boğaziçi Üniversitesi , Attendee, İstanbul, Turkey, 2017
2.KOCAELİ ÇOCUK Ve GENÇLİK KONGRESİ, Session Moderator, Kocaeli, Turkey, 2017
Study Weeks on Inverse Spectral Transformations and Soliton Theory/TÜBİTAK Feza Gürsey Enstitüsü, Attendee, İstanbul, Turkey, 2004
Workshop on Linear and Multilinear Algebra /TÜBİTAK Institute of Feza Gürsey, Attendee, İstanbul, Turkey, 2003

Artistic Activity

Özkum G., Kocaeli Üniversitesi Türk Halk Müziği Korosu- Baki Komsuoğlu Kültür Ve Kongre Merkezi Konseri, Turkish Folk Music, April 2018
Özkum G., Kocaeli Üniversitesi Türk Halk Müziği Korosu -18 Mart Çanakkale Zaferi Konseri, Turkish Folk Music, March 2018
Özkum G., Kocaeli Üniversitesi Türk Halk Müziği Korosu Kandıra Konseri, Turkish Folk Music, February 2018
Özkum G., Kocaeli Üniversitesi Türk Halk Müziği Korosu-Baki Komsuoğlu Kültür Ve Kongre Merkezi Konseri, Turkish Folk Music, March 2017

Representation and Promotion Activities

Institutional Representation, Kocaeli Bilim Merkezi, Turkey, Kocaeli, 2015 - 2015
Institutional Promotion, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Turkey, Kocaeli, 2009 - 2009