

## Asst. Prof. Pınar ALBAYRAK

### Personal Information

Office Phone: [+90 212 383 4321](tel:+902123834321)

Other Email: [palbyrk@gmail.com](mailto:palbyrk@gmail.com)

Web: <https://palbyrk@gmail.com>

### International Researcher IDs

ScholarID: DOLrzoAAAAJ

ORCID: 0000-0002-7973-3500

ScopusID: 36660479300

Yoksis Researcher ID: 173889



### Education Information

Doctorate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 2005 - 2009

Postgraduate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 2001 - 2004

Undergraduate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 1997 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Mathematics, Differential Equations, Functional Equations, Integral Equations, Numerical Analysis, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2018 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2009 - 2018

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2001 - 2009

### Academic and Administrative Experience

Faculty FEDEK Representative, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2021 - 2022

Member of Department FEDEK Commission, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2020 - 2022

Bölüm Kalite Komisyonu Başkanı, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2012 - 2022

Adaptation/Exemption Committee Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2018 - 2021

Deputy Head of Department, Yildiz Technical University, 2017 - 2020

## Courses

İLERİ MÜHENDİSLİK MATEMATİĞİ 2, Postgraduate, 2023 - 2024

CALCULUS 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MATEMATİK ANALİZ 2, Undergraduate, 2022 - 2023, 2019 - 2020

CALCULUS 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

REEL ANALİZE GİRİŞ, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

LİNEER CEBİR, Undergraduate, 2014 - 2015

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

- I. **Optical solitons of a cubic-quartic nonlinear Schrodinger equation with parabolic law nonlinearity in optical metamaterials**  
Das S. E., Ozisik M., Bayram M., Secer A., Albayrak P.  
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.20, no.21, pp.101142, 2023 (SCI-Expanded)
- II. **Optical solitons of (2+1)-dimensional Biswas–Milovic model with Kerr and parabolic laws of self-phase modulation**  
Das S. E., Ozisik M., Secer A., Bayram M., Albayrak P.  
Optik, vol.288, 2023 (SCI-Expanded)
- III. **Optical solitons of Biswas–Milovic model having spatio-temporal dispersion and parabolic law via a couple of Kudryashov's schemes**  
Albayrak P.  
Optik, vol.279, 2023 (SCI-Expanded)
- IV. **Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation**  
ALBAYRAK P., ÖZİŞİK M., SEÇER A., BAYRAM M., Ebru Das S. E.  
Modern Physics Letters B, 2023 (SCI-Expanded)
- V. **SOLITON SOLUTIONS OF (2+1)-DIMENSIONAL NON-LINEAR REACTION-DIFFUSION MODEL VIA RICCATI-BERNOULLI APPROACH**  
ALBAYRAK P.  
Thermal Science, vol.26, no.SpecialIssue2, 2022 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Pure-Cubic Optical Solitons and Stability Analysis with Kerr Law Nonlinearity**  
Albayrak P., Ozisik M., Bayram M., Secer A., Das S. E., Biswas A., Yıldırım Y., Mirzazadeh M., Asiri A.  
Contemporary Mathematics (Singapore), vol.4, no.3, pp.530-548, 2023 (Scopus)
- II. **Solitary wave solutions of the (4+1)-dimensional Fokas equation via an efficient integration technique**  
ALBAYRAK P.  
Avrupa Bilim ve Teknoloji Dergisi, no.46, pp.54-63, 2023 (Peer-Reviewed Journal)
- III. **On invariant ideals on locally convex solid Riesz spaces.**  
ÇELİKER F., ALBAYRAK P.  
Operator theory live, vol.12, pp.1-4, 2010 (Peer-Reviewed Journal)
- IV. **On Invariant Subspaces of Weakly Compact Friendly Operators**  
GÖK Ö., ALBAYRAK P.

International Journal of Contemporary Mathematical Sciences, vol.4, pp.259-266, 2009 (Peer-Reviewed Journal)

**V. On Weakly Compact Friendly Operators**

GÖK Ö., ALBAYRAK P.

International Journal of Pure and Applied Math., vol.50, pp.609-613, 2009 (Peer-Reviewed Journal)

**VI. The Second Regularized Trace of a Second Order Differential Operator with Unbounded Operator Coefficient**

Adıgüzelov E., Albayrak P.

International Journal of Pure and Applied Math, vol.22, pp.349-365, 2005 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Dimensionless form of (1+1)-dimensional Radhakrishnan-Kundu-Lakshmanan equation with parabolic law of self-phase modulation in the presence of group velocity dispersion**

Albayrak P., Özişik M.

International Conference on Nonlinear Science and Complexity (ICNSC23), İstanbul, Turkey, 10 - 15 July 2023, pp.96

**II. Retrieval optical solitons of perturbed Radhakrishnan-Kundu-Lakshmanan equation**

Albayrak P., Özişik M., Seçer A., Bayram M.

INTERNATIONAL CONFERENCE ON NONLINEAR SCIENCE AND COMPLEXITY, 2023, İstanbul, Turkey, 10 - 15 July 2023, pp.91

**III. A NOTE ON DECOMPOSABILITY THEOREMS.**

Albayrak P.

4th INTERNATIONAL E-CONFERENCE ON MATHEMATICAL ADVANCES AND ITS APPLICATIONS, İstanbul, Turkey, 26 - 29 May 2021, pp.178

**IV. On Locally Convex Solid Riesz Spaces**

Çeliker F., Albayrak P.

13th Algebraic Hyperstructures and its Applications, İstanbul, Turkey, 24 - 27 July 2017, pp.114

**V. Some Results About Invariant Subspaces of Weakly Compact-Friendly Operators**

ALBAYRAK P.

3. International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 2 - 06 February 2017

**VI. Positive Operators on Banach Lattices**

ALBAYRAK P.

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015

**VII. On Duals of Strictly Transitive Operator Algebras on Banach Spaces**

DEMİR E., ALBAYRAK P.

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015

**VIII. On Invariant Subspace Problem**

Albayrak P., Çeliker F.

22nd Conference in Operator Theory, Timisoara, Romania, 3 - 08 July 2008, pp.1

**IX. On Invariant Ideals on Banach Lattices**

ALBAYRAK P.

22. Conference in Operator Theory, 01 July 2008

## **Metrics**

Publication: 24

Citation (Scopus): 17

H-Index (Scopus): 2

### **Congress and Symposium Activities**

International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2017

3rd International Conference on Pure and Applied Sciences, Attendee, Dubai, United Arab Emirates, 2017

International Conference on Applied Analysis and Mathematical Modeling, Attendee, Turkey, 2013

22nd Conference in Operator Theory, Attendee, Timisoara, Romania, 2008

### **Scholarships**

TÜBİTAK Lisansüstü Burs Programı BİDEB, TÜBİTAK, 2005 - 2009