

## Prof. Dr. ASLI PEKCAN YILDIZ

### Kişisel Bilgiler

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Yoksis Araştırmacı ID: 29261

### Eğitim Bilgileri

Post Doktora, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik, Türkiye 2010 - 2011

Post Doktora, University of South Florida, College Of Arts And Science, Department Of Mathematics And Statistics, Amerika Birleşik Devletleri 2010 - 2010

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik, Türkiye 2005 - 2009

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik, Türkiye 2003 - 2005

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik, Türkiye 1999 - 2003

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

Diferansiyel denklemler, Kısmi diferansiyel eşitlikler

### Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2022 - Devam Ediyor

### Yönetilen Tezler

Pekcan Yıldız A., Lineer olmayan kısmi diferansiyel denklemlerin Bäcklund dönüşümleri, Yüksek Lisans, N.KAR(Öğrenci), 2018

Pekcan Yıldız A., Silindir Yantr B., Unification of integrable q-difference equations, Doktora, D.SOYOĞLU(Öğrenci), 2017

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

#### I. Multi-component AKNS systems

Gürses M., YILDIZ A.

- Wave Motion, cilt.117, 2023 (SCI-Expanded)
- II. **Soliton solutions of the shifted nonlocal NLS and MKdV equations**  
Gurses M., YILDIZ A.  
PHYSICS LETTERS A, cilt.422, 2022 (SCI-Expanded)
  - III. **(2+1)-dimensional AKNS(-N) systems II**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.97, 2021 (SCI-Expanded)
  - IV. **Local and nonlocal (2+1)-dimensional Maccari systems and their soliton solutions**  
Pekcan A.  
PHYSICA SCRIPTA, cilt.96, sa.3, 2021 (SCI-Expanded)
  - V. **Nonlocal KdV equations**  
GÜRSES M., Pekcan A.  
PHYSICS LETTERS A, cilt.384, sa.35, 2020 (SCI-Expanded)
  - VI. **Nonlocal hydrodynamic type of equations**  
GÜRSES M., Pekcan A., ZHELTUKHIN K.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.85, 2020 (SCI-Expanded)
  - VII. **Discrete symmetries and nonlocal reductions**  
GÜRSES M., Pekcan A., ZHELTUKHIN K.  
PHYSICS LETTERS A, cilt.384, sa.3, 2020 (SCI-Expanded)
  - VIII. **Superposition of the coupled NLS and MKdV systems**  
GÜRSES M., Pekcan A.  
APPLIED MATHEMATICS LETTERS, cilt.98, ss.157-163, 2019 (SCI-Expanded)
  - IX. **(2+1)-dimensional local and nonlocal reductions of the negative AKNS system: Soliton solutions**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.71, ss.161-173, 2019 (SCI-Expanded)
  - X. **Nonlocal coupled HI-MKdv systems**  
Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.72, ss.493-515, 2019 (SCI-Expanded)
  - XI. **Nonlocal modified KdV equations and their soliton solutions by Hirota Method**  
GÜRSES M., Pekcan A.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.67, ss.427-448, 2019 (SCI-Expanded)
  - XII. **Nonlocal nonlinear Schrodinger equations and their soliton solutions**  
GÜRSES M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.59, sa.5, 2018 (SCI-Expanded)
  - XIII. **Traveling wave solutions of degenerate coupled Korteweg-de Vries equation**  
Gurses M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.55, sa.9, 2014 (SCI-Expanded)
  - XIV. **The Klein-Gordon Equation and Differential Substitutions of the Form  $v = \phi(u, u(x), u(y))$**   
KUZNETSOVA M. N., Pekcan A., ZHIBER A. V.  
SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS, cilt.8, 2012 (SCI-Expanded)
  - XV. **2+1 KdV(N) equations**  
Gurses M., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.52, sa.8, 2011 (SCI-Expanded)
  - XVI. **Uniqueness of the Kadomtsev-Petviashvili and Boussinesq Equations**  
MA W., Pekcan A.  
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.66, ss.377-382, 2011 (SCI-Expanded)
  - XVII. **Complete list of Darboux integrable chains of the form  $t(1x)=t(x)+d(t,t(1))$**

- HABIBULLIN I., Zheltukhina N., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.50, sa.10, 2009 (SCI-Expanded)
- XVIII. **SOLUTIONS OF THE EXTENDED KADOMTSEV-PETVIASHVILI-BOUSSINESQ EQUATION BY THE HIROTA DIRECT METHOD**  
Pekcan A.  
JOURNAL OF NONLINEAR MATHEMATICAL PHYSICS, cilt.16, sa.2, ss.127-139, 2009 (SCI-Expanded)
- XIX. **On the classification of Darboux integrable chains**  
Habibullin I., Zheltukhina N., Pekcan A.  
JOURNAL OF MATHEMATICAL PHYSICS, cilt.49, sa.10, 2008 (SCI-Expanded)
- XX. **On some algebraic properties of semi-discrete hyperbolic type equations**  
Habibullin I., Pekcan A., Zheltukhina N.  
TURKISH JOURNAL OF MATHEMATICS, cilt.32, sa.3, ss.277-292, 2008 (SCI-Expanded)
- XXI. **Characteristic Lie algebra and classification of semidiscrete models**  
HABIBULLIN I. T., Pekcan A. G.  
THEORETICAL AND MATHEMATICAL PHYSICS, cilt.151, sa.3, ss.781-790, 2007 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Shifted nonlocal Kundu type equations: Soliton solutions**  
YILDIZ A.  
Partial Differential Equations in Applied Mathematics, cilt.5, 2022 (Scopus)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Nonlocal Reductions of Integrable Equations**  
GÜRSES M., YILDIZ A.  
3rd INTERNATIONAL CONFERENCE ON SYMMETRIES, DIFFERENTIAL EQUATIONS AND APPLICATIONS, 14 - 17 Ağustos 2017, cilt.266, ss.27-52
- II. **Traveling wave solutions of degenerate coupled multi KdV equations**  
GÜRSES M., YILDIZ A.  
III. Kadın Matematikçiler Derneği Çalıştayı, Türkiye, 27 - 29 Mayıs 2016
- III. **Degenerate Coupled Multi KdV Equation**  
GÜRSES M., YILDIZ A.  
International Workshop on Differential Equations and Applications VII, 14 - 16 Temmuz 2015
- IV. **Traveling Wave Solutions of Degenerate Coupled KdV Equation**  
GÜRSES M., YILDIZ A.  
International Workshop on Differential Equations and Applications VI, 13 - 15 Eylül 2013
- V. **2+1 KdV N Equations**  
Gürses M., Yıldız A.  
International Workshop on Differential Equations and Applications V, İzmir, Türkiye, 12 - 15 Eylül 2013
- VI. **On Some Algebraic Properties of Semi Discrete Hyperbolic Type Equations**  
YILDIZ A.  
Differential Equations, University of South Florida, Florida/Tampa, 14 Nisan 2010

### **Metrikler**

Yayın: 28

Atf (WoS): 213

Atıf (Scopus): 218  
H-İndeks (WoS): 8  
H-İndeks (Scopus): 8

## **Ödüller**

Yıldız A., Orhan Alısbah Ödülü, İ. D. Bilkent Üniversitesi, Ekim 2007