

Prof. Erdal KARADUMAN

Personal Information

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Address: ATATÜRK ÜNİVERSİTESİ FEN FAKÜLTESİ MATEMATİK BÖLÜMÜ ERZURUM

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Sonlu Gruplarda 2-basamak Fibonacci Dizileri , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2002
Postgraduate, Alt Grup Temsilleri ve Yan Küme Hesaplamaları”, Doç. Dr. Hüseyin AYDIN , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1998

Research Areas

Mathematics, Group Theory and Generalizations, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Matematik, 2011 - Continues
Associate Professor, Ataturk University, Fen Fakültesi, Matematik, 2006 - 2011
Assistant Professor, Ataturk University, Fen Fakültesi, Matematik, 2002 - 2006
Research Assistant, Ataturk University, Fen Fakültesi, Matematik, 1995 - 2002

Academic and Administrative Experience

Head of Department, Ataturk University, Fen Fakültesi, Matematik, 2011 - Continues
Atatürk Üniversitesi, Aktüerya Bilimleri Bölümü, 2013 - 2016
Vice Dean, Ataturk University, Fen Fakültesi, 2012 - 2016

Courses

Abstract Albebra, Undergraduate, 2021 - 2022
Abstract Algebra I, Undergraduate, 2021 - 2022
Algebraic Structures I, Postgraduate, 2021 - 2022
Linear Agebra I, Undergraduate, 2021 - 2022
Soyut Cebir II, Undergraduate, 2019 - 2020
Mathematics I, Undergraduate, 2020 - 2021

Advising Theses

- Karaduman E., Sonlu merkezleyici zincirine sahip grupların cebirsel yapısı, Doctorate, T.ÇAKMAK(Student), 2018
KARADUMAN E., Sonlu Gruplarda Padovan Dizileri", Atatürk Üniversitesi, Doctorate, S.TAŞ(Student), 2016
KARADUMAN E., Hecke Grupları ve Fibonacci Dizisi, Postgraduate, F.YATKIN(Student), 2013
KARADUMAN E., K-Fibonacci Dizisi, Polinomları ve Bunların Türevleri, Postgraduate, T.ÇAKMAK(Student), 2012
KARADUMAN E., Sonlu Polyhedral ve Binary Polyhedral Gruplardaki k-nacci Dizileri, Doctorate, Ö.DEVECİ(Student), 2010
KARADUMAN E., Maksimal Devirli Alt Gruplara Sahip Sonlu p-Grupların Sınıflandırılması, Postgraduate, S.TAŞ(Student), 2010

Jury Memberships

- Doctorate, Doctorate, Erzincan Binali Yıldırım Üniversitesi, July, 2021
Appointment Academic Staff, Appointment Academic Staff, Recep Tayyip Erdoğan Üniversitesi, June, 2021
Doctorate, Erdal Karaduman, Kafkas Üniversitesi, February, 2019
Associate Professor Exam, Doçentlik Sınavı, ÜAK, October, 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **ON THE ADJACENCY-PELL NUMBERS**
KARADUMAN E., DEVECİ Ö.
UTILITAS MATHEMATICA, vol.113, pp.191-207, 2019 (Journal Indexed in SCI)
- II. **The adjacency-Jacobsthal-Hurwitz sequences in groups**
DEVECİ Ö., KARADUMAN E.
COMMUNICATIONS IN ALGEBRA, vol.46, no.9, pp.3833-3839, 2018 (Journal Indexed in SCI)
- III. **The Fibonacci-Circulant Sequences and Their Applications**
DEVECİ Ö., KARADUMAN E., Campbell C. M.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.41, pp.1033-1038, 2017
(Journal Indexed in SCI)
- IV. **On the Padovan p-numbers**
DEVECİ Ö., KARADUMAN E.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.4, pp.579-592, 2017 (Journal Indexed in SCI)
- V. **Lehmer Sequences in Finite Groups**
Deveci O., Karaduman E.
UKRAINIAN MATHEMATICAL JOURNAL, vol.68, no.2, pp.193-202, 2016 (Journal Indexed in SCI)
- VI. **THE JACOBSTHAL SEQUENCES IN FINITE GROUPS**
Deveci O., Karaduman E., Saglam G.
BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, vol.42, no.1, pp.79-89, 2016 (Journal Indexed in SCI)
- VII. **The Pell-Padovan p-Sequences and Its Applications**
DEVECİ Ö., Akuzum Y., KARADUMAN E.
UTILITAS MATHEMATICA, vol.98, pp.327-347, 2015 (Journal Indexed in SCI)
- VIII. **The Generalized Pell p-Sequences in Groups**
DEVECİ Ö., Akdeniz M., KARADUMAN E.
ARS COMBINATORIA, vol.120, pp.383-401, 2015 (Journal Indexed in SCI)
- IX. **The Pell Sequences in Finite Groups**

DEVECİ Ö., KARADUMAN E.

UTILITAS MATHEMATICA, vol.96, pp.263-276, 2015 (Journal Indexed in SCI)

- X. **The Padovan Sequences in Finite Groups**
TAŞ S., KARADUMAN E.
Chiang Mai Journal Of Science, vol.41, pp.456-462, 2014 (Journal Indexed in SCI)
- XI. **The Fibonacci-Padovan sequences in finite groups**
TAŞ S., DEVECİ Ö., KARADUMAN E.
MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, vol.8, no.3, pp.279-287, 2014 (Journal Indexed in SCI)
- XII. **The cyclic groups via the Pascal matrices and the generalized Pascal matrices**
DEVECİ Ö., KARADUMAN E.
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.437, no.10, pp.2538-2545, 2012 (Journal Indexed in SCI)
- XIII. **The k-nacci sequences in $Q(2n) \times (\phi) Z(2m)$**
DEVECİ Ö., Karaduman E.
MATHEMATICAL AND COMPUTER MODELLING, vol.55, pp.1450-1455, 2012 (Journal Indexed in SCI)
- XIV. **The Generalized Order-k Lucas Sequences in Finite Groups**
DEVECİ Ö., Karaduman E.
JOURNAL OF APPLIED MATHEMATICS, 2012 (Journal Indexed in SCI)
- XV. **On the k-Nacci Sequences in Finite Binary Polyhedral Groups**
DEVECİ Ö., KARADUMAN E., Campbell C. M.
ALGEBRA COLLOQUIUM, vol.18, pp.945-954, 2011 (Journal Indexed in SCI)
- XVI. **On the Basic k-nacci Sequences in Finite Groups**
DEVECİ Ö., Karaduman E.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2011 (Journal Indexed in SCI)
- XVII. **THE PERIODS OF K-NACCI SEQUENCES IN CENTRO-POLYHEDRAL GROUPS AND RELATED GROUPS**
DEVECİ Ö., Karaduman E., Campbell C. M.
ARS COMBINATORIA, pp.193-210, 2010 (Journal Indexed in SCI)
- XVIII. **k-nacci sequences in some special groups of finite order**
KARADUMAN E., Aydin H.
MATHEMATICAL AND COMPUTER MODELLING, vol.50, pp.53-58, 2009 (Journal Indexed in SCI)
- XIX. **K-nacci Sequences in Finite Triangle Groups**
KARADUMAN E., Deveci O.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2009 (Journal Indexed in SCI)
- XX. **On the period of Fibonacci sequences in nilpotent groups**
KARADUMAN E., YAVUZ U.
Applied Mathematics and Computation, vol.142, pp.321-332, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **THE FIBONACCI-CIRCULANT SEQUENCES IN THE BINARY POLYHEDRAL GROUPS**
KARADUMAN E., DEVECİ Ö.
INTERNATIONAL JOURNAL OF GROUP THEORY, vol.10, no.3, pp.97-101, 2021 (Journal Indexed in ESCI)
- II. **THE ADJACENCY-JACOBSTHAL SEQUENCE IN FINITE GROUPS**
KARADUMAN E., Akuzum Y., DEVECİ Ö.
JORDAN JOURNAL OF MATHEMATICS AND STATISTICS, vol.12, no.1, pp.51-58, 2019 (Journal Indexed in ESCI)
- III. **ON THE DOUBLE PELL SEQUENCES**
DEVECİ Ö., KARADUMAN E.
ROMAI J., v.15, no.1(2019), 37{44, vol.1, no.15, pp.37-44, 2019 (Refereed Journals of Other Institutions)
- IV. **The periods of the k-step Fibonacci and k-step Pellsequences in $D_{2n} \times Z_{2i}$ and $D_{2n} \times_{xx} Z_{2i}$**
DEVECİ Ö., AVCI M., KARADUMAN E.

Scientific Annals of the Alexandru Ioan Cuza University of Iași (New Series). Mathematics, vol.2, no.2018, pp.283-292, 2018 (Refereed Journals of Other Institutions)

- V. **On the derivatives of bivariate Fibonacci polynomials**
Çakmak T., KARADUMAN E.
NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.24, no.3, pp.37-46, 2018 (Journal Indexed in ESCI)
- VI. **THE JACOBSTHAL CIRCULANT SEQUENCES AND THEIR APPLICATIONS**
DEVECİ Ö., KARADUMAN E.
ROMAI J, vol.11, no.2, pp.77-88, 2015 (Refereed Journals of Other Institutions)
- VII. **The k step generalized Pell Padovan sequence in Finite Groups**
TAŞ S., DEVECİ Ö., KARADUMAN E.
New Trends in Mathematical Sciences, vol.4, no.2015, pp.43-49, 2015 (Refereed Journals of Other Institutions)
- VIII. **The Cyclic Groups via Bezout Matrices**
DEVECİ Ö., Yeşim A., KARADUMAN E., Özgür E.
Journal of Mathematics Research, vol.7, no.2, 2015 (Refereed Journals of Other Institutions)
- IX. **The Pell-Padovan Lengths and the Jacobsthal-Padovan Lengths of the Polyhedral and Binary Polyhedral Groups**
DEVECİ Ö., VARGÜN Y. S., KARADUMAN E.
Advances in Theoretical and Applied Mathematics, 2013 (Refereed Journals of Other Institutions)
- X. **k nacci Sequences in Minimal Non Abelian p Groups**
DEVECİ Ö., KARADUMAN E., COLİN c., TAŞ S.
Indian Journal of Mathematics, vol.52, pp.275-286, 2010 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Reccurence Sequences in Groups**
DEVECİ Ö., KARADUMAN E.
Lanbert Acedemic, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **THE DOUBLE PELL SEQUENCE AND THEIR APPLICATIONS**
DEVECİ Ö., KARADUMAN E.
XXXI International Conference PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES- PDMU-2018, 3 - 09 August 2018
- II. **THE FIBONACCI-CIRCULAN SEQUENCE IN THE BINARY POLYHEDRAL GROUPS**
KARADUMAN E., DEVECİ Ö.
XXXI International Conference PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES- PDMU-2018, 3 - 09 August 2018
- III. **Hipermerkezil Altgrupların Ek Zarfları,**
ÇAKMAK T., ALTINEL T., KARADUMAN E.
30. Ulusal Matematik Sempozyumu, Turkey, 6 - 09 September 2017
- IV. **THE ADJACENCY-JACOBSTHAL SEQUENCE IN FINITE GROUPS", , 28 August-1 Sep.2017, Ostravic-Czech Republic.**
KARADUMAN E., AKÜZÜM Y., DEVECİ Ö.
23rd Czech and Slovak International Conference on Number Theory, 28 August - 01 September 2017
- V. **THE ADJACENCY-JACOBSTHAL-HURWITZ SEQUENCE IN GROUPS", Ostravic-Czech Republic**
DEVECİ Ö., KARADUMAN E.
23rd Czech and Slovak International Conference on Number Theory, 28 August - 01 September 2017

- VI. **On The Lucas p-Sequences in Finite Polyhedral Groups**
DEVECİ Ö., KARADUMAN E.
International Scientific Conference on Theoretical and Application Problems of Mathematics, 25 - 26 May 2017
- VII. **The Recurrence Sequences via Sylvester Matrices**
Karaduman E., Deveci O.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863
- VIII. **The Jacobsthal circulant sequences and their Applications**
DEVECİ Ö., KARADUMAN E.
23rd Conference of Applied and Industrial Mathematics - CAIM-2015, 17 - 20 September 2015
- IX. **ENVELOPES IN Mc GROUPS**
Tuba Ç., Tuna A., KARADUMAN E.
Antalya Cebir Günleri XVII 2015, 20 - 24 May 2015

Scientific Refereeing

MANAS Journal of Engineering", Other Indexed Journal, October 2021

TURKISH JOURNAL OF MATHEMATICS, National Scientific Refreed Journal, February 2020

Edit Congress and Symposium Activities

XXXI International Conference PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES- PDMU-2018, Attendee, Lankaran, Azerbaijan, 2018

XXXI International Conference PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES- PDMU-2018, Attendee, Lankaran, Azerbaijan, 2018

30. Ulusal Matematik Sempozyumu, Attendee, Ankara, Turkey, 2017

23rd Czech and Slovak International Conference on Number Theory, Attendee, Ostrava, Czech Republic, 2017

23rd Czech and Slovak International Conference on Number Theory, Attendee, Ostrava, Czech Republic, 2017

Citations

Total Citations (WOS):190

h-index (WOS):9

Non Academic Experience

TUBITAK, TÜBİTAK, BİDEB