



# MUHAMMET CİHAT DAĞLI

## ASSOC. PROF.

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### International Researcher IDs

ORCID: 0000-0003-2859-902X

Publons / Web Of Science ResearcherID: I-6013-2017

ScopusID: 55752345000

Yoksis Researcher ID: 184790



### Learning Knowledge

Doctorate  
2010 - 2016

Akdeniz University, Fen Bilimleri Ens., Matematik, Turkey

Postgraduate  
2008 - 2010

Akdeniz University, Fen Bilimleri Ens., Matematik, Turkey

Undergraduate  
2004 - 2008

Suleyman Demirel University, Fen Edebiyat Fakültesi, Matematik, Turkey

### Dissertations

Doctorate, Dedekind Toplamının Benzerleri, Akdeniz University, Institute of Science, Matematik, 2016

Postgraduate, Dejenere Hardy Toplamları, Akdeniz University, Fen Bilimleri Ens., Matematik, 2010

### Academic Titles / Tasks

Associate Professor  
2021 - Continues

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor  
2018 - 2021

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor  
2017 - 2018

Akdeniz University, Faculty of Science, Department of Mathematics

## Supported Projects

1. DAĞLI M. C., Sever H., Project Supported by Higher Education Institutions, Genelleştirilmiş Dedekind Toplamları Genelleştirilmiş Hardy Toplamlarını ve Kloosterman Toplamını İçeren Ortalama Değer Formülleri Üzerine Bir Araştırma, 2020 - 2022
2. DAĞLI M. C., CAN M., Project Supported by Higher Education Institutions, On Generalized Eisenstein Series And RamanujanS Formula For Periodic ZetaFunctions, 2018 - 2020
3. DAĞLI M. C., Project Supported by Higher Education Institutions, Üiversal Bernoulli Polinomlarının Bazı Özellikleri, 2018 - 2019
4. CAN M., DAĞLI M. C., Project Supported by Higher Education Institutions, Extended Bernoulli and Stirling matrices and related combinatorial identities, 2015 - 2018

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

1. **Certain topological properties for almost convergent Catalan-Motzkin sequence space**  
Dağlı M. C.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.53, pp.1-10, 2024 (SCI-Expanded)
2. **A study on Fibo-Pascal sequence spaces and associated matrix transformations and applications of Hausdorff measure of non-compactness**  
Dağlı M. C., Yaying T.  
GEORGIAN MATHEMATICAL JOURNAL, vol.31, pp.1-16, 2024 (SCI-Expanded)
3. **Matrix transformation and application of Hausdorff measure of non-compactness on newly defined Fibo-Pascal sequence spaces**  
Dağlı M. C., Yaying T.  
FILOMAT, vol.38, no.4, pp.1185-1196, 2024 (SCI-Expanded)
4. **Fibonomial matrix and its domain in the spaces  $\ell_p$  and  $\ell_\infty$**   
Dağlı M. C., Yaying T.  
TURKISH JOURNAL OF MATHEMATICS, vol.47, no.7, pp.1915-1931, 2023 (SCI-Expanded)
5. **On the mean value of the generalized Dedekind sum and certain generalized Hardy sums weighted by the Kloosterman sum**  
Dağlı M. C., Sever H.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.75, no.6, pp.889-896, 2023 (SCI-Expanded)
6. **A new orthogonal polynomial associated with a generalization of Delannoy numbers**  
Dağlı M. C.  
BULLETIN DES SCIENCES MATHÉMATIQUES, vol.187, pp.1-12, 2023 (SCI-Expanded)
7. **New identities involving certain Hardy sums and two-term exponential sums**  
Dağlı M. C.  
INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.54, no.3, pp.841-847, 2023 (SCI-Expanded)
8. **A novel conservative matrix arising from Schröder numbers and its properties**  
Dağlı M. C.  
LINEAR AND MULTILINEAR ALGEBRA, vol.71, no.8, pp.1338-1351, 2023 (SCI-Expanded)
9. **A new almost convergent sequence space defined by Schröder matrix**  
Dağlı M. C.  
Linear and Multilinear Algebra, vol.71, no.11, pp.1863-1874, 2023 (SCI-Expanded)

10. **Some novel identities for analogues of Dedekind sums, Hurwitz zeta-function and general Kloosterman sum**  
Dağlı M. C.  
Acta Mathematica Hungarica, vol.168, no.2, pp.373-385, 2022 (SCI-Expanded)
11. **A new generalization of hyperharmonic numbers**  
Dağlı M. C.  
ANNALES POLONICI MATHEMATICI, vol.129, no.1, pp.17-24, 2022 (SCI-Expanded)
12. **Degenerate Fubini-Type Polynomials and Numbers, Degenerate Apostol–Bernoulli Polynomials and Numbers, and Degenerate Apostol–Euler Polynomials and Numbers**  
Jin S., Dağlı M. C., Qi F.  
Axioms, vol.11, no.9, pp.1-10, 2022 (SCI-Expanded)
13. **Matrix mappings and compact operators for Schröder sequence spaces**  
Dağlı M. C.  
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.6, pp.2304-2320, 2022 (SCI-Expanded)
14. **Explicit, determinantal, recursive formulas and relations of the Peters polynomials and numbers**  
Dağlı M. C.  
Mathematical Methods In The Applied Sciences, vol.45, no.5, pp.2582-2591, 2022 (SCI-Expanded)
15. **On Degenerate Array Type Polynomials**  
Wu L., Chen X., Dağlı M. C., Qi F.  
Cmes-Computer Modeling In Engineering, vol.131, no.1, pp.295-305, 2022 (SCI-Expanded)
16. **Explicit formulas and recurrence relations for generalized Catalan numbers**  
Dağlı M. C.  
Turkish Journal Of Mathematics, vol.45, no.5, pp.2171-2179, 2021 (SCI-Expanded)
17. **On Some Identities Involving Certain Hardy Sums and a Kloosterman Sum**  
DAĞLI M. C.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.72, no.11, pp.1724-1732, 2021 (SCI-Expanded)
18. **Explicit, Determinantal, and Recurrent Formulas of Generalized Eulerian Polynomials**  
Wang Y., DAĞLI M. C., Liu X., Qi F.  
AXIOMS, vol.10, no.1, 2021 (SCI-Expanded)
19. **Closed formulas and determinantal expressions for higher-order Bernoulli and Euler polynomials in terms of Stirling numbers**  
Dağlı M. C.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.115, no.1, 2021 (SCI-Expanded)
20. **Several explicit formulas for (degenerate) Narumi and Cauchy polynomials and numbers**  
Qi F., Dağlı M. C., Lim D.  
Open Mathematics, vol.19, no.1, pp.833-849, 2021 (SCI-Expanded)
21. **A new recursive formula arising from a determinantal expression for weighted Delannoy numbers**  
DAĞLI M. C.  
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.1, pp.471-478, 2021 (SCI-Expanded)
22. **A New Generalization of Delannoy Numbers**  
DAĞLI M. C.  
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.51, no.4, pp.1729-1735, 2020 (SCI-Expanded)
23. **On the hybrid mean value of generalized Dedekind sums, generalized Hardy sums and Ramanujan sum**  
DAĞLI M. C.  
BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHEMATIQUES DE ROUMANIE, vol.63, no.4, pp.325-333, 2020 (SCI-Expanded)
24. **Periodic analogues of Dedekind sums and transformation formulas of Eisenstein series**  
DAĞLI M. C., CAN M.  
RAMANUJAN JOURNAL, vol.44, no.2, pp.301-341, 2017 (SCI-Expanded)

25. **On generalized Eisenstein series and Ramanujan's formula for periodic zeta-functions**  
DAĞLI M. C., CAN M.  
MONATSHEFTE FÜR MATHEMATIK, vol.184, no.1, pp.77-103, 2017 (SCI-Expanded)
26. **Character analogue of the Boole summation formula with applications**  
CAN M., DAĞLI M. C.  
TURKISH JOURNAL OF MATHEMATICS, vol.41, no.5, pp.1204-1223, 2017 (SCI-Expanded)
27. **On reciprocity formula of character Dedekind sums and the integral of products of Bernoulli polynomials**  
DAĞLI M. C., CAN M.  
JOURNAL OF NUMBER THEORY, vol.156, pp.105-124, 2015 (SCI-Expanded)
28. **Extended Bernoulli and Stirling matrices and related combinatorial identities**  
CAN M., DAĞLI M. C.  
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.444, pp.114-131, 2014 (SCI-Expanded)
29. **A new generalization of Hardy-Berndt sums**  
DAĞLI M. C., CAN M.  
PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES-MATHEMATICAL SCIENCES, vol.123, no.2, pp.177-192, 2013 (SCI-Expanded)

#### Articles Published in Other Journals

1. **Some new fibonomial difference sequence spaces and related dual properties**  
Dağlı M. C.  
Contributions to Mathematics, vol.9, pp.38-45, 2024 (Peer-Reviewed Journal)
2. **Some degenerate binomial sequence spaces and related matrix transformations and compactness**  
Dağlı M. C., Sarıgöz Oktar B.  
Journal of Analysis, vol.32, pp.1-17, 2024 (ESCI)
3. **A New Paranormed Sequence Space Defined by Regular Bell Matrix**  
KARAKAŞ M., DAĞLI M. C.  
Dera Natung Government College Research Journal, vol.8, no.1, pp.30-45, 2023 (Peer-Reviewed Journal)
4. **Some results on matrix transformation and compactness for fibonomial sequence spaces**  
Dağlı M. C., Yaying T.  
ACTA SCIENTIARUM MATHEMATICARUM, vol.89, no.3-4, pp.593-609, 2023 (ESCI)
5. **On the paranormed sequence space arising from Catalan–Motzkin matrix**  
Dağlı M. C.  
Advances in Operator Theory, vol.8, no.2, pp.1-15, 2023 (ESCI)
6. **Some new paranormed sequence spaces derived by regular Tribonacci matrix**  
Dağlı M. C., Yaying T.  
Journal of Analysis, vol.31, no.1, pp.109-127, 2023 (ESCI)
7. **Some topologic and geometric properties of new Catalan sequence spaces**  
Karakas M., Dağlı M. C.  
Advances in Operator Theory, vol.8, no.1, pp.1-15, 2023 (ESCI)
8. **Several recurrence relations and identities on generalized derangement numbers**  
Dağlı M. C., Qi F.  
Results in Nonlinear Analysis, vol.5, no.2, pp.185-190, 2022 (Scopus)
9. **Two explicit formulas for degenerate Peters numbers and polynomials**  
Li Y., Dağlı M. C., Qi F.  
Discrete Mathematics Letters, vol.8, pp.1-5, 2022 (Scopus)
10. **A generalization of the array type polynomials**  
Masjed-Jamei M., Milovanovic G. V., Dağlı M. C.  
Mathematica Moravica, vol.26, no.1, pp.37-46, 2022 (Peer-Reviewed Journal)

11. **Several closed and determinantal forms for convolved fibonacci numbers**  
DAĞLI M. C., Qi F.  
Discrete Mathematics Letters, vol.7, pp.14-20, 2021 (Scopus)
12. **Bazı Hardy Toplamları ve Ramanujan Toplamının Ortalama Değeri Hakkında Yeni Bağıntılar**  
DAĞLI M. C.  
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.15, no.1, pp.148-157, 2020 (Peer-Reviewed Journal)
13. **Determinantal forms and recursive relations of the delannoy two-functional sequence**  
Qi F., DAĞLI M. C., Du W.  
Advances in the Theory of Nonlinear Analysis and its Applications, vol.4, no.3, pp.184-193, 2020 (Scopus)
14. **SOME RELATIONS FOR UNIVERSAL BERNOULLI POLYNOMIALS**  
Dağlı M. C.  
UFA MATHEMATICAL JOURNAL, vol.11, no.4, pp.131-139, 2019 (ESCI)
15. **ON THE INTEGRAL OF PRODUCTS OF HIGHER-ORDER BERNOULLI AND EULER POLYNOMIALS**  
DAĞLI M. C., CAN M.  
FUNCTIONES ET APPROXIMATIO COMMENTARII MATHEMATICI, vol.57, no.1, pp.7-20, 2017 (ESCI)
16. **On reciprocity formula for certain character Hardy-Berndt sums**  
DAĞLI M. C., CAN M.  
Sinop Üniversitesi Fen Bilimleri Dergisi, vol.2, no.1, pp.133-139, 2017 (Peer-Reviewed Journal)
17. **On reciprocity formula of character Dedekind sums**  
CAN M., DAĞLI M. C.  
Palestine Journal of Mathematics, vol.4, no.Spec. 1, pp.496-501, 2015 (Scopus)
18. **On Reciprocity Formulas for Apostol's Dedekind Sums and Their Analogues**  
DAĞLI M. C., CAN M.  
JOURNAL OF INTEGER SEQUENCES, vol.17, no.5, pp.1-9, 2014 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

1. **On Delannoy and Catalan numbers**  
DAĞLI M. C.  
7th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2020), Bodrum, Turkey, 25 - 28 September 2020, pp.45
2. **Several relations on certain Hardy sums and two-term exponential sum**  
DAĞLI M. C.  
3rd International Conference on Pure and Applied Mathematics (ICPAM-VAN 2020), Van, Turkey, 3 - 05 September 2020, pp.56
3. **A hybrid mean value of certain Hardy sums and Kloosterman sum**  
DAĞLI M. C.  
9th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2020), Skopje, Macedonia, 25 - 28 August 2020, pp.153
4. **A note on Delannoy and Schröder numbers**  
DAĞLI M. C.  
3rd International E-Conference on Mathematical Advances and Applications (ICOMAA-2020), İstanbul, Turkey, 24 - 27 June 2020, pp.143
5. **Integral of Product of Universal Bernoulli Polynomials**  
DAĞLI M. C.  
BMS 2018 Mathematical Conference, Saraybosna, Bosnia And Herzegovina, 12 - 14 July 2018, pp.24
6. **On Universal Bernoulli Polynomials**  
DAĞLI M. C.  
International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 3 - 06

July 2018, pp.239

7. **Degenerate Hardy-Berndt Sums**

DAĞLI M. C., CAN M.

International Conference on Mathematical Advances and Application (ICOMAA 2018), İstanbul, Turkey, 11 - 13 May 2018, pp.115

8. **Analogues of Dedekind Sums**

DAĞLI M. C.

The Second Romanian-Turkish Mathematics Colloquium, İstanbul, Turkey, 25 - 29 October 2017, pp.17

9. **On reciprocity formulas for Apostol's Dedekind sums and their analogues**

DAĞLI M. C.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2017), İstanbul, Turkey, 3 - 07 July 2017, pp.287

10. **Eisenstein series and periodic Dedekind sums**

DAĞLI M. C.

International Conference on Advancements in Mathematical Sciences (AMS 2015), Antalya, Turkey, 5 - 07 November 2015, pp.91

11. **Periyodik Dedekind Toplamları**

DAĞLI M. C.

28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.96

12. **On the integral of products of higher-order Bernoulli and Euler polynomials**

DAĞLI M. C., CAN M.

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM2014), Antalya, Turkey, 6 - 09 November 2014, pp.77

## Courses

Fonksiyonel Analiz II, Undergraduate, 2022 - 2023

Bitirme Çalışması II, Undergraduate, 2022 - 2023, 2021 - 2022

Yüksek Lisans Tezi, Postgraduate, 2022 - 2023

Fonksiyonel Analizde Seçme Konular II, Doctorate, 2022 - 2023

Uzmanlık Alan Dersi, Postgraduate, 2022 - 2023

Seminer II, Postgraduate, 2022 - 2023, 2021 - 2022

Y.L. Danışmanlık, Postgraduate, 2022 - 2023

Fonksiyonel Analiz I, Undergraduate, 2022 - 2023

Ayrık Matematik, Undergraduate, 2021 - 2022

Fonksiyonel Analizde Seçme Konular I, Doctorate, 2022 - 2023

Genel Matematik II, Undergraduate, 2021 - 2022

Diferansiyel Denklemler, Undergraduate, 2022 - 2023

Bitirme Çalışması I, Undergraduate, 2022 - 2023, 2021 - 2022

Analitik Fonksiyonlar Teorisinde Seçme Konular II, Postgraduate, 2021 - 2022

İşletme Matematiği II, Undergraduate, 2021 - 2022

Yüksek Lisans Tezi, Postgraduate, 2022 - 2023

Matematik II, Undergraduate, 2021 - 2022

Seminer I, Postgraduate, 2022 - 2023, 2021 - 2022

Matematik I, Undergraduate, 2021 - 2022

Matematik I, Undergraduate, 2021 - 2022

İşletme Matematiği I, Undergraduate, 2021 - 2022

Bitirme Çalışması II, Undergraduate, 2020 - 2021, 2019 - 2020

Analitik Fonksiyonlar Teorisinde Seçme Konular I, Postgraduate, 2021 - 2022

İşletme Matematiği II, Undergraduate, 2020 - 2021

Ayrık Matematik, Undergraduate, 2020 - 2021, 2019 - 2020  
Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022  
Genel Matematik I, Undergraduate, 2021 - 2022  
Matematik II, Undergraduate, 2020 - 2021, 2019 - 2020  
Biyologlar için Matematik, Undergraduate, 2020 - 2021  
Y.L. Danışmanlık, Postgraduate, 2021 - 2022  
İşletme Matematiği I, Undergraduate, 2020 - 2021  
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020  
Matematik I, Undergraduate, 2020 - 2021, 2019 - 2020  
Diferansiyel Denklemler, Undergraduate, 2020 - 2021  
Yüksek Lisans Danışmanlık, Postgraduate, 2019 - 2020  
Bitirme Çalışması I, Undergraduate, 2020 - 2021, 2019 - 2020  
Yüksek Lisans Danışmanlık, Postgraduate, 2019 - 2020  
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020  
Diferansiyel Denklemler, Undergraduate, 2018 - 2019  
Fonksiyonlar Teorisinde Seçme Konular I, Postgraduate, 2018 - 2019  
Diferansiyel Denklemler, Undergraduate, 2019 - 2020  
Fonksiyonlar Teorisinde Seçme Konular II, Postgraduate, 2018 - 2019  
Seminer I, Postgraduate, 2019 - 2020  
YL Danışmanlık, Postgraduate, 2017 - 2018  
Uzmanlık Alan Dersi, Postgraduate, 2017 - 2018  
Matematik II, Undergraduate, 2017 - 2018  
Kombinatorik II, Doctorate, 2017 - 2018  
Matematik II, Undergraduate, 2017 - 2018  
Matematik I, Undergraduate, 2017 - 2018  
Matematik I, Undergraduate, 2017 - 2018  
YL Danışmanlık, Postgraduate, 2017 - 2018  
Kombinatorik I, Doctorate, 2017 - 2018  
Uzmanlık Alan Dersi, Postgraduate, 2017 - 2018

## Advising Theses

Dağlı M. C., GENELLEŞTİRİLMİŞ DELANNOY POLİNOMLARI ÜZERİNE, Postgraduate, S.YAMAN(Student), 2024  
Dağlı M. C., Genelleştirilmiş Dedekind, genelleştirilmiş Hardy ve Kloosterman toplamlarının ortalama değer formülleri üzerine, Postgraduate, H.SEVER(Student), 2022

## Metrics

Publication: 60  
Citation (WoS): 36  
Citation (Scopus): 57  
H-Index (WoS): 4  
H-Index (Scopus): 5

## Congress and Symposium Activities

The Second Romanian-Turkish Mathematics Colloquium, Invited Speaker, İstanbul, Turkey, 2017  
28. Ulusal Matematik Sempozyumu, Attendee, Antalya, Turkey, 2015

## Research Areas

Mathematics, Sequences, Series, Summability, Functional Analysis, Combinatorics, Number Theory, Natural Sciences