

Assoc. Prof. SİBEL KOPARAL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-5788-2018

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Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Turkey 2011 - 2018

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, Turkey 2009 - 2011

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Mathematics

Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2022 - Continues

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2021 - 2022

Academic and Administrative Experience

Member of Department FEDEK Commission, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik, 2022 - Continues

Courses

Undergraduate, 2023 - 2024, 2022 - 2023

LINEAR ALGEBRA, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

MATEMATİK I, Undergraduate, 2023 - 2024

TEMEL MATEMATİK I, Undergraduate, 2023 - 2024, 2022 - 2023

SAYILAR TEORİSİ II, Postgraduate, 2022 - 2023
MATEMATİK I, Undergraduate, 2023 - 2024, 2022 - 2023
TEMEL MATEMATİK I, Undergraduate, 2023 - 2024, 2022 - 2023
Calculus II, Undergraduate, 2022 - 2023, 2021 - 2022
BACIS MATHEMATICS II, Undergraduate, 2021 - 2022
BACIS MATHEMATICS II, Undergraduate, 2021 - 2022
SAYILAR TEORİSİ I, Postgraduate, 2022 - 2023
BACIS MATHEMATICS II, Undergraduate, 2021 - 2022
LINEAR ALGEBRA, Undergraduate, 2021 - 2022
DİFERANSİYEL DENKLEMLER, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **New approach: Solvent effects of benzaldehyde in aliphatic alcohol solvents with FT-IR spectroscopy and augmented vertex-adjacency matrices**
KARA Y. S., KOPARAL S., TEKİN N., ÖMÜR N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1321, 2025 (SCI-Expanded)
- II. **On three-dimensional q -Riordan arrays**
Fang G., KOPARAL S., ÖMÜR N., Duran O., Khan W. A.
DEMONSTRATIO MATHEMATICA, no.1, 2024 (SCI-Expanded)
- III. **Congruences with q -harmonic numbers and q -binomial coefficients**
Elkhiri L., Koparal S., ÖMÜR N.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.55, no.2, pp.639-648, 2024 (SCI-Expanded)
- IV. **q -Analogues of $H_{n,m}(\sigma)$ and Their Applications**
Guan H., KOPARAL S., ÖMÜR N., Khan W. A.
MATHEMATICS, vol.11, no.19, 2023 (SCI-Expanded)
- V. **Some Identities with Multi-Generalized q -Hyperharmonic Numbers of Order r**
Chen Z., ÖMÜR N., KOPARAL S., Khan W. A.
Symmetry, vol.15, no.4, 2023 (SCI-Expanded)
- VI. **Some congruences with q -binomial sums**
ÖMÜR N., GÜR Z. B., KOPARAL S., ELKHİRİ L.
Turkish Journal of Mathematics, vol.47, no.7, pp.2006-2027, 2023 (SCI-Expanded)
- VII. **Some congruences with q -binomial coefficients and q -harmonic numbers**
KOPARAL S., ÖMÜR N., Elkhiri L.
Hacettepe Journal of Mathematics and Statistics, vol.52, no.2, pp.445-458, 2023 (SCI-Expanded)
- VIII. **SOME IDENTITIES FOR DERANGEMENT NUMBERS**
KOPARAL S., ÖMÜR N., Sudemen K. N.
Miskolc Mathematical Notes, vol.23, no.2, pp.773-785, 2022 (SCI-Expanded)
- IX. **Congruences with q -generalized Catalan numbers and q -harmonic numbers**
ÖMÜR N., Gur Z. B., KOPARAL S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.3, pp.712-724, 2022 (SCI-Expanded)
- X. **On Congruences with Binomial Coefficients and Harmonic Numbers**
KOPARAL S., Elkhiri L., ÖMÜR N.
FILOMAT, vol.36, no.3, pp.951-960, 2022 (SCI-Expanded)
- XI. **NEW CONGRUENCES WITH THE GENERALIZED CATALAN NUMBERS AND HARMONIC NUMBERS**
Elkhiri L., KOPARAL S., ÖMÜR N.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.58, no.5, pp.1079-1095, 2021 (SCI-Expanded)
- XII. **On congruences related to trinomial coefficients and harmonic numbers**
ÖMÜR N., KOPARAL S., Elkhiri L.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.4, pp.1592-1604, 2021 (SCI-Expanded)

- XIII. **Powers Sums of the First and Second Kinds of Chebyshev Polynomials**
 Kilic E., KOPARAL S., ÖMÜR N.
 IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.44, no.2, pp.425-435, 2020 (SCI-Expanded)
- XIV. **Some applications on q-analog of the generalized hyperharmonic numbers of order r, H-n(r) (alpha)**
 KOPARAL S., ÖMÜR N., Colak C. D.
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.6, pp.2094-2103, 2020 (SCI-Expanded)
- XV. **Nonlinear variants of the generalized Filbert and Lilbert matrices**
 Kilic E., KOPARAL S., ÖMÜR N.
 TURKISH JOURNAL OF MATHEMATICS, vol.44, no.3, pp.622-642, 2020 (SCI-Expanded)
- XVI. **New analogues of the Filbert and Lilbert matrices via products of two k-tuples asymmetric entries**
 Kilic E., ÖMÜR N., KOPARAL S.
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.2, pp.684-694, 2020 (SCI-Expanded)
- XVII. **ON SUMS WITH GENERALIZED HARMONIC, HYPERHARMONIC AND SPECIAL NUMBERS**
 Duran O., ÖMÜR N., KOPARAL S.
 MISKOLC MATHEMATICAL NOTES, vol.21, no.2, pp.791-803, 2020 (SCI-Expanded)
- XVIII. **New asymmetric generalizations of the Filbert and Lilbert matrices**
 Kilic E., KOPARAL S., ÖMÜR N.
 PERIODICA MATHEMATICA HUNGARICA, vol.78, no.2, pp.231-241, 2019 (SCI-Expanded)
- XIX. **On congruences involving special numbers**
 KOPARAL S., ÖMÜR N.
 JOURNAL OF THE RAMANUJAN MATHEMATICAL SOCIETY, vol.34, no.2, pp.151-167, 2019 (SCI-Expanded)
- XX. **ON CONGRUENCES INVOLVING THE GENERALIZED CATALAN NUMBERS AND HARMONIC NUMBERS**
 KOPARAL S., ÖMÜR N.
 BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, no.3, pp.649-658, 2019 (SCI-Expanded)
- XXI. **On congruences for q-analogues of ballot numbers**
 KOPARAL S.
 TURKISH JOURNAL OF MATHEMATICS, vol.43, no.5, pp.2642-2648, 2019 (SCI-Expanded)
- XXII. **Some Permanents of Hessenberg Matrices**
 KOPARAL S., Omur N., Sener C. D.
 FILOMAT, vol.33, no.2, pp.475-481, 2019 (SCI-Expanded)
- XXIII. **FORMULAE FOR TWO WEIGHTED BINOMIAL IDENTITIES WITH THE FALLING FACTORIALS**
 Kilic E., ÖMÜR N., KOPARAL S.
 ARS COMBINATORIA, vol.138, pp.223-231, 2018 (SCI-Expanded)
- XXIV. **SOME INTERESTING CONGRUENCES FOR BALLOT NUMBERS**
 ÖMÜR N., KOPARAL S.
 MISKOLC MATHEMATICAL NOTES, vol.19, no.2, pp.1079-1094, 2018 (SCI-Expanded)
- XXV. **On congruences related to central binomial coefficients, harmonic and Lucas numbers**
 KOPARAL S., ÖMÜR N.
 TURKISH JOURNAL OF MATHEMATICS, vol.40, no.5, pp.973-985, 2016 (SCI-Expanded)
- XXVI. **SOME CONGRUENCES INVOLVING NUMBERS B (p,k-d)**
 ÖMÜR N., KOPARAL S.
 UTILITAS MATHEMATICA, vol.95, pp.307-317, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **SOME SUMS VIA EULER'S TRANSFORM**
 ÖMÜR N., KOPARAL S., Elkhiri L.
 HONAM MATHEMATICAL JOURNAL, no.3, pp.365-377, 2024 (ESCI)

- II. **Some Sums Involving Generalized Harmonic and r -Derangement Numbers**
 koparal s.
 Cumhuriyet Science Journal, vol.45, no.1, pp.111-116, 2024 (Peer-Reviewed Journal)
- III. **GENERALIZED DEGENERATE HARMONIC NUMBERS AND THEIR APPLICATIONS WITH RIORDAN ARRAYS**
 Duran Ö., ÖMÜR N., KOPARAL S.
 Integers, vol.24, 2024 (Scopus)
- IV. **SOME IDENTITIES FOR GENERALIZED HARMONIC NUMBERS**
 KOPARAL S., ÖMÜR N., Südemem K.
 Matematicki Vesnik, vol.76, no.4, pp.288-302, 2024 (ESCI)
- V. **BINOMIAL SUMS WITH HARMONIC AND FIBONACCI NUMBERS**
 Duran O., ÖMÜR N., KOPARAL S.
 JOURNAL OF SCIENCE AND ARTS, no.2, pp.389-398, 2024 (ESCI)
- VI. **Some Properties Involving The Generalized Harmonic Polynomials**
 ÖMÜR N., KOPARAL S., Duran O.
 APPLIED MATHEMATICS E-NOTES, pp.97-104, 2024 (ESCI)
- VII. **On sums with generalized harmonic numbers via Euler's transform**
 ÖMÜR N., KOPARAL S., Elkhiri L.
 NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.29, no.4, pp.695-704, 2023 (ESCI)
- VIII. **On generalized hyperharmonic numbers of order $r, H_r(n, m)$ (σ)**
 KOPARAL S., ÖMÜR N., Elkhiri L.
 NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.29, no.4, pp.804-812, 2023 (ESCI)
- IX. **On sums with the r -derangement numbers**
 ÖMÜR N., Südemem K. N., KOPARAL S., Duran Ö.
 JOURNAL OF SCIENCE AND ARTS, vol.23, no.2, pp.469-480, 2023 (ESCI)
- X. **Some Identities with Special Numbers**
 ÖMÜR N., Südemem K. N., KOPARAL S.
 CUMHURİYET SCIENCE JOURNAL, vol.43, no.4, pp.696-702, 2022 (Peer-Reviewed Journal)
- XI. **Applications of degenerate q -Euler and q -Changhee polynomials with weight α**
 Duran Ö., KOPARAL S., ÖMÜR N.
 Acta et Commentationes Universitatis Tartuensis de Mathematica, vol.26, no.2, pp.253-264, 2022 (ESCI)
- XII. **Sums involving generalized harmonic and Daehee numbers**
 ÖMÜR N., KOPARAL S.
 Notes on Number Theory and Discrete Mathematics, vol.28, no.1, pp.92-99, 2022 (ESCI)
- XIII. **A Q -ANALOGUE OF GRANVILLE'S CONGRUENCE**
 Elkhiri L., ÖMÜR N., KOPARAL S.
 Integers, vol.22, 2022 (Scopus)
- XIV. **Identities involving some special numbers and polynomials on p -adic integral**
 ÖMÜR N., KOPARAL S., Duran Ö., Südemem K. N.
 NOTES ON NUMBER THEORY AND DISCRETE MATHEMATICS, vol.28, no.3, pp.564-574, 2022 (ESCI)
- XV. **On binomial sums with the terms of sequences $\{g_{kn}\}$ and $\{h_{kn}\}$**
 KOPARAL S., ÖMÜR N., Çolak C. D.
 Facta Universitatis Series: Mathematics and Informatics, vol.36, no.1, pp.31-42, 2021 (ESCI)
- XVI. **On identities involving generalized harmonic, hyperharmonic and special numbers with Riordan arrays**
 KOPARAL S., ÖMÜR N., Duran Ö.
 Special Matrices, vol.9, pp.22-30, 2021 (ESCI)
- XVII. **On binomial sums and alternating binomial sums of generalized Fibonacci numbers with falling factorials**
 KOPARAL S., ÖMÜR N.
 Mathematical Sciences and Applications E-Notes, vol.8, no.2, pp.123-129, 2020 (Peer-Reviewed Journal)

- XVIII. **On hyper-dual generalized Fibonacci numbers**
 ÖMÜR N., KOPARAL S.
 Notes on Number Theory and Discrete Mathematics, vol.26, no.1, pp.191-198, 2020 (ESCI)
- XIX. **Some congruences involving Catalan, Pell and Fibonacci numbers**
 KOPARAL S., ÖMÜR N.
 Mathematica Montisnigri, vol.48, pp.10-18, 2020 (Peer-Reviewed Journal)
- XX. **Some congruences for sums involving harmonic numbers**
 KOPARAL S., ÖMÜR N.
 Cumhuriyet Science Journal, vol.39, no.4, pp.912-919, 2018 (Peer-Reviewed Journal)
- XXI. **ON CONGRUENCES WITH THE TERMS OF THE SECOND ORDER SEQUENCES $\{U-kn\}$ AND $\{V-kn\}$**
 KOPARAL S., ÖMÜR N.
 HONAM MATHEMATICAL JOURNAL, vol.40, no.3, pp.549-559, 2018 (ESCI)
- XXII. **On the matrices with the generalized hyperharmonic numbers of order r**
 ÖMÜR N., KOPARAL S.
 ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.11, no.3, 2018 (ESCI)
- XXIII. **ON CERTAIN HESSENBERG MATRICES RELATED WITH LINEAR RECURRENCES**
 KOPARAL S., ÖMÜR N., Colak C. D.
 FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.33, no.2, pp.153-162, 2018 (ESCI)
- XXIV. **On some congruences with the terms of second order sequence and harmonic numbers**
 ÖMÜR N., KOPARAL S.
 Karaelmas Fen ve Mühendislik Dergisi, vol.7, no.2, pp.586-589, 2017 (Peer-Reviewed Journal)
- XXV. **Some sums related to the terms of generalized Fibonacci autocorrelation sequences $\{a_{k,n}(t)\}$**
 ÖMÜR N., KOPARAL S.
 Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.3, pp.307-313, 2017 (Peer-Reviewed Journal)
- XXVI. **ON ALTERNATING WEIGHTED BINOMIAL SUMS WITH FALLING FACTORIALS**
 Kiliç E., ÖMÜR N., KOPARAL S.
 BULLETIN OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.9, no.1, pp.58-64, 2017 (ESCI)
- XXVII. **On congruences with the terms of second order sequence $\{Q_n\}$**
 ÖMÜR N., KOPARAL S.
 Journal of Algebra, Number Theory: Advances and Applications, vol.15, no.1, pp.15-39, 2016 (Peer-Reviewed Journal)
- XXVIII. **Two variants of the reciprocal Super Catalan matrix**
 KILIÇ E., ÖMÜR N., KOPARAL S., TÜRKER ULUTAŞ Y.
 Kyungpook Mathematical Journal, vol.56, pp.409-418, 2016 (ESCI)
- XXIX. **Some congruences related to harmonic numbers and the terms of the second order sequences**
 ÖMÜR N., KOPARAL S.
 Mathematica Moravica, vol.20, no.2, pp.23-37, 2016 (Peer-Reviewed Journal)
- XXX. **Families of primitive Pythagorean triples involving terms of generalized Fibonacci and Lucas sequences**
 ÖMÜR N., ŞENER C. D., KOPARAL S.
 Journal of Mathematical Extension, vol.10, no.4, pp.45-59, 2016 (ESCI)
- XXXI. **A new perspective to the sequences of t order**
 ÖMÜR N., KOPARAL S., ŞENER C. D.
 International Journal of Computer Applications, vol.86, no.6, pp.29-33, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. On Identities with r -Derangement Numbers

Duran Ö., ÖMÜR N., KOPARAL S., Südemen K. N.

5th International Conference on Life and Engineering Sciences, Antalya, Turkey, 22 May 2022

- II. **On q-congruences involving q-generalized Catalan numbers**
 Gür Z. B., ÖMÜR N., KOPARAL S.
 5th International Gap Mathematics-Engineering-Science and HealthSciences Congress, Şanlıurfa, Turkey, 4 - 06 December 2020
- III. **On generalized hyperharmonic numbers of order r , $H_{\{n\}\{r\}}(a)$ with Riordan Arrays**
 Duran Ö., ÖMÜR N., KOPARAL S.
 International Marmara Sciences Congress (Autumn) 2019, Kocaeli, Turkey, 1 - 03 November 2019, pp.1065-1070
- IV. **On Umbral methods and generalized harmonic numbers $H_{\{n\}}(a)$**
 Duran Ö., KOPARAL S., ÖMÜR N.
 International Marmara Sciences Congress (Autumn) 2019, Kocaeli, Turkey, 1 - 03 November 2019, pp.1077-1082
- V. **Congruences related to harmonic, balancing and Lucas-balancing numbers I**
 KOPARAL S., ÖMÜR N.
 2. Uluslararası GAP Matematik - Mühendislik - Fen ve Sağlık Bilimleri, Adıyaman, Turkey, 21 - 23 June 2019
- VI. **Congruences related to harmonic, balancing and Lucas-balancing numbers II**
 KOPARAL S., ÖMÜR N.
 2. Uluslararası GAP Matematik - Mühendislik - Fen ve Sağlık Bilimleri, Adıyaman, Turkey, 21 - 23 June 2019
- VII. **On congruences with q - binomial coefficients**
 KOPARAL S., ÖMÜR N.
 International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- VIII. **On matrices with q – analog of the generalized hyperharmonic numbers of order r , $H_{\{n\}\{r\}}(a)$**
 Çolak C. D., ÖMÜR N., KOPARAL S.
 International Eurasian Conference on Science, Engineering and Technology, 22 - 23 November 2018
- IX. **Some applications for special sequence involving binomial sums**
 ÖMÜR N., KOPARAL S.
 1. Uluslararası GAP Matematik -Mühendislik - Fen ve Sağlık Bilimleri Kongresi, Şanlıurfa, Turkey, 4 - 07 October 2018, pp.412-419
- X. **Some congruences for sums involving Catalan numbers**
 KOPARAL S., ÖMÜR N.
 1. Uluslararası GAP Matematik -Mühendislik - Fen ve Sağlık Bilimleri Kongresi, Şanlıurfa, Turkey, 4 - 07 October 2018, pp.420-426
- XI. **On hyper-dual generalized Fibonacci numbers**
 ÖMÜR N., KOPARAL S.
 BMS Mathematical Conference, 12 - 14 July 2018
- XII. **Some congruences for Ballot numbers**
 KOPARAL S., ÖMÜR N.
 BMS Mathematical Conference, 12 - 14 July 2018
- XIII. **On alternating weighted binomial sums with falling factorials**
 KOPARAL S., KILIÇ E., ÖMÜR N.
 1st International Conference on Mathematical and Related Sciences, 30 April - 04 May 2018
- XIV. **On congruences for sums involving harmonic numbers**
 KOPARAL S., ÖMÜR N.
 1st International Conference on Mathematical and Related Sciences, 30 April - 04 May 2018
- XV. **On identities for sequences of binomial sums with terms of sequences $\{g_{kn}\}$ and $\{h_{kn}\}$**
 ÖMÜR N., KOPARAL S., Çolak D. C.
 4th International Conference on Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- XVI. **On Congruences with the terms of second order sequences $\{U_{kn}\}$ and $\{V_{kn}\}$**
 KOPARAL S., ÖMÜR N.
 4th International Conference on Pure and Applied Sciences: Renewable Energies, İstanbul, Turkey, 23 - 25 November 2017
- XVII. **New generalizations of the Filbert and Libert matrices**

- ÖMÜR N., KILIÇ E., KOPARAL S.
Caucasian Mathematics Conference II, Van, Turkey, 22 - 24 August 2017
- XVIII. **Two asymmetric generalizations of the Filbert matrix**
KOPARAL S., KILIÇ E., ÖMÜR N.
Caucasian Mathematics Conferences CMC II, Van, Turkey, 22 - 24 August 2017
- XIX. **Formulae for two weighted binomial identities with the falling factorials**
KOPARAL S., ÖMÜR N., KILIÇ E.
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18 August 2017
- XX. **Some permanents of Hessenberg matrices**
KOPARAL S., ÖMÜR N., Çolak C. D.
4th International Conference on Recent Advances in Pure and Applied Mathematics, İzmir, Turkey, 11 - 15 May 2017
- XXI. **On congruences involving special numbers**
KOPARAL S., ÖMÜR N.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017
- XXII. **Some congruences with balancing and Lucas balancing numbers**
KOPARAL S.
The 12th International Conference on Approximation Theory and its Applications, Sibiu, Romania, 26 - 29 May 2016
- XXIII. **On some congruences**
KOPARAL S., ÖMÜR N.
3rd International Conference on Recent Advances in Pure and Applied Mathematics, Muğla, Turkey, 19 - 23 May 2016
- XXIV. **On congruences with the terms of second order sequence and harmonic numbers**
KOPARAL S., ÖMÜR N.
4th International Eurasian Conference on Mathematical Sciences and Applications(IECMSA-2015), 31 August - 03 September 2015
- XXV. **On congruences related to central binomial coefficients, harmonic and Lucas numbers**
KOPARAL S., ÖMÜR N.
Lebanese International Conference on Mathematics and Applications, 26 - 29 May 2015
- XXVI. **On congruences with the terms of the sequences $\{U_{kn}\}$ and $\{V_{kn}\}$**
ÖMÜR N., KOPARAL S.
Lebanese International Conference on Mathematics and Applications, 26 - 29 May 2015
- XXVII. **Congruences on harmonic numbers and second order sequences**
KOPARAL S., ÖMÜR N.
International Conference on Algebra and Number Theory, 5 - 08 August 2014
- XXVIII. **Applications of generalized Fibonacci autocorrelation sequences $\{\Gamma_{k,n}(t)\}_{t\{\infty\}}$**
KOPARAL S., ÖMÜR N.
International Congress In Honour Of Professor Ravi P. Agarwal, 23 - 26 June 2014
- XXIX. **$B_{p,k}^d$ sayılarını içeren bazı kongrüanslar**
KOPARAL S., ÖMÜR N.
XXVI. Ulusal Matematik Sempozyumu, Turkey, 4 - 07 September 2013

Metrics

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