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### Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, Türkiye 1990 - 1993

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Türkiye 1988 - 1990

Lisans, Çukurova Üniversitesi, Fen Edebiyat, Matematik, Türkiye 1983 - 1987

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Dedekind ve Hardy Toplamlarının genelleştirilmesi, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1993

Yüksek Lisans, Hermityan Matris Eşitsizlikleri, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1990

### Araştırma Alanları

Matematik, Genel Matematik, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2012 - Devam Ediyor

Doç. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2007 - 2012

Yrd. Doç. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2005 - 2007

Yrd. Doç. Dr., Mersin Üniversitesi, Fen Edebiyat Fakültesi/Matematik, Matematik, 1993 - 2005

Öğretim Görevlisi, Çukurova Üniversitesi, Mersin Meslek Yüksek Okulu, Teknik Birimler, 1988 - 1993

## Akademik İdari Deneyim

Mersin Üniversitesi, Fen Bilimleri Enstitüsü, 1996 - 1998

Mersin Üniversitesi, Matematik, 1993 - 1994

## Verdiği Dersler

Karmaşık Analiz I ve II, Lisans, 2021 - 2022

Kısmi Diferansiyel Denklemler, Lisans, 2021 - 2022

Özel Fonksiyonlar I ve II, Yüksek Lisans, 2018 - 2019

Analitik Sayılar Teorisi, Yüksek Lisans, 2017 - 2018

Olasılık, Lisans, 2013 - 2014

Diferansiyel Denklemler Teorisine Giriş, Lisans, 2013 - 2014

P-Adik Sayılar, Doktora, 2013 - 2014

Olasılık ve Ölçüm Kuramı, Yüksek Lisans, 2013 - 2014

## Yönetilen Tezler

ŞİMŞEK Y., xx, Doktora, D.GÜN(Öğrenci), Devam Ediyor

ŞİMŞEK Y., Leibnitz tipli sayılar ile bazı özel toplamlar arasındaki ilişkiler, Yüksek Lisans, D.KAYA(Öğrenci), Devam Ediyor

ŞİMŞEK Y., xx, Yüksek Lisans, Y.ÇETİN(Öğrenci), Devam Ediyor

ŞİMŞEK Y., Hermite tipli Milne-Thomson polinomlarının üreteç fonksiyonları ve bunların hesaplamalı bilimlerdeki uygulamaları, Doktora, N.KILAR(Öğrenci), 2021

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ŞİMŞEK Y., HİLBERT MATRİSLERİ VE HANKEL DETERMİNANTLARININ BAZI ÖZEL POLİNOM VE SAYILARI İLE İLİŞKİLERİ, Yüksek Lisans, Z.Selin(Öğrenci), 2020

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ŞİMŞEK Y., Sonlu Özel Toplamlar, Doktora, E.Çetin(Öğrenci), 2017

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ŞİMŞEK Y., (q-) UMBRAL ANALİZDE SHEFFER TIPLI POLİNOMLAR VE UYGULAMALARI, Doktora, R.Dere(Öğrenci), 2016

ŞİMŞEK Y., KOMBİNATORİK TOPLAMLAR VE BUNLARIN OLASILIK VE İSTATİSTİKTEKİ UYGULAMALARI, Yüksek Lisans, H.Amrani(Öğrenci), 2016

ŞİMŞEK Y., Merkezi faktöriyel sayılarının üreteç fonksiyonları ve uygulamaları, Yüksek Lisans, Ü.Başar(Öğrenci), 2016

ŞİMŞEK Y., MERKEZİ FAKTÖRİYEL SAYILARININ ÜRETEÇ FONKSİYONLARI VE UYGULAMALARI, Yüksek Lisans, Ü.Başar(Öğrenci), 2015

ŞİMŞEK Y., On multidimensional Hermite base Appell polynomials, Doktora, B.KURT(Öğrenci), 2013

ŞİMŞEK Y., Çok değişkenli hermite tabanlı appell polinomları üzerine, Doktora, B.Kurt(Öğrenci), 2013

ŞİMŞEK Y., Hecke type operators and their applications, Doktora, A.AHMET(Öğrenci), 2012

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ŞİMŞEK Y., Generating Functions of Some Special Polynomials and Their Applications on Umbral Algebra, Yüksek Lisans, R.DERE(Öğrenci), 2011

ŞİMŞEK Y., Umbral cebir üzerinde bazı özel polinomların üreteç fonksiyonları ve uygulamaları, Yüksek Lisans, R.Dere(Öğrenci), 2011

ŞİMŞEK Y., Hermite Apostol-Bernoulli polynomials, Yüksek Lisans, B.KURT(Öğrenci), 2009

ŞİMŞEK Y., On p-adic q-measure and their applications, Doktora, H.ÖZDEN(Öğrenci), 2009

ŞİMŞEK Y., Generating Functions of Bernoulli Numbers, Yüksek Lisans, S.SELEN(Öğrenci), 2009  
ŞİMŞEK Y., Teaching Series to highschool students, Yüksek Lisans, F.AKGÜL(Öğrenci), 2005  
ŞİMŞEK Y., Relations between Eisenstein series and Dedekind sums, Yüksek Lisans, E.KARLIK(Öğrenci), 2004  
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ŞİMŞEK Y., P-adic Hardy sums, Yüksek Lisans, Y.ÇETİNKAYA(Öğrenci), 2002  
ŞİMŞEK Y., On relations between Weierstrass P-functions, theta functions and Dedekind sums, Yüksek Lisans, C.TAŞKIN(Öğrenci), 1997

## Jüri Üyelikleri

Akademik Kadroya Atama-Yardımcı Doçentlik, Akdeniz Üniversitesi Profesör atama, Akdeniz Üniversitesi , Mayıs, 2015  
Akademik Kadroya Atama-Yardımcı Doçentlik, Doğu Akdeniz Üniversitesi Profesör ataması, Doğu Akdeniz Üniversitesi, Aralık, 2014  
Akademik Kadroya Atama-Yardımcı Doçentlik, Profesörlük Atama, İstanbul Arel Üniversitesi, Şubat, 2014  
Akademik Kadroya Atama-Yardımcı Doçentlik, Profesörlük Atama, Adıyaman Üniversitesi, Ocak, 2014  
Akademik Kadroya Atama-Yardımcı Doçentlik, Doçentlik Atama Jazan University, Jazan University, Ocak, 2014  
Doçentlik Sınavı, Doçentlik-Uluslararası Kıbrıs Üniversitesi, Uluslararası Kıbrıs Üniversitesi, Temmuz, 2013  
Akademik Kadroya Atama-Yardımcı Doçentlik, Yrd. Doç. Dr. Uludağ Üniversitesi, Eylül, 2012  
Akademik Kadroya Atama-Yardımcı Doçentlik, Konya Selçuk Üniversitesi, Konya Selçuk Üniversitesi, Ocak, 2006

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

- I. **Formulas for p-adic q-integrals including falling-rising factorials, combinatorial sums and special numbers**  
Şimşek Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, cilt.118, sa.92, ss.1-52, 2024 (SCI-Expanded)
- II. **FINITE SUMS INVOLVING TRIGONOMETRIC FUNCTIONS AND SPECIAL POLYNOMIALS: ANALYSIS OF GENERATING FUNCTIONS AND p-ADIC INTEGRALS**  
Kılar N., Bayad A., ŞİMŞEK Y.  
Applicable Analysis and Discrete Mathematics, cilt.18, sa.2, ss.452-476, 2024 (SCI-Expanded)
- III. **Generating functions for polynomials derived from central moments involving bernstein basis functions and their applications**  
Yılmaz Ceylan A., Şimşek Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, cilt.118, sa.57, ss.1-17, 2024 (SCI-Expanded)
- IV. **Novel Formulas for B-Splines, Bernstein Basis Functions, and Special Numbers: Approach to Derivative and Functional Equations of Generating Functions**  
Şimşek Y.  
Mathematics, cilt.12, sa.1, ss.1-20, 2024 (SCI-Expanded)
- V. **On the generating functions and special functions associated with superoscillations**  
Colombo F., Krausshar R., Sabadini I., ŞİMŞEK Y.  
Discrete Applied Mathematics, cilt.340, ss.215-227, 2023 (SCI-Expanded)
- VI. **Construction of general forms of ordinary generating functions for more families of numbers and multiple variables polynomials**  
Şimşek Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, cilt.117, sa.3, ss.1-26, 2023 (SCI-Expanded)
- VII. **Recurrence relations, associated formulas, and combinatorial sums for some parametrically**

**generalized polynomials arising from an analysis of the Laplace transform and generating functions**

Kilar N., ŞİMŞEK Y., Srivastava H. M.

RAMANUJAN JOURNAL, cilt.61, sa.3, ss.731-756, 2023 (SCI-Expanded)

- VIII. **Modification exponential Euler type splines derived from Apostol-Euler numbers and polynomials of complex order**  
Gün D., Simsek Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.17, sa.1, ss.197-215, 2023 (SCI-Expanded)
- IX. **Generating functions for series involving higher powers of inverse binomial coefficients and their applications**  
Şimşek Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.46, sa.18, ss.1-27, 2023 (SCI-Expanded)
- X. **Formulae bringing to light from certain classes of numbers and polynomials**  
Kilar N., Kim D., Simsek Y.  
Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales - Serie A: Matematicas, cilt.117, sa.1, 2023 (SCI-Expanded)
- XI. **Generating functions for reciprocal Catalan-type sums: approach to linear differentiation equation and ( $p$ -adic) integral equations**  
Gün D., Şimşek Y.  
TURKISH JOURNAL OF MATHEMATICS, cilt.47, sa.2, ss.830-845, 2023 (SCI-Expanded)
- XII. **Analysis of Generating Functions for Special Words and Numbers and Algorithms for Computation**  
Kucukoglu I., Milovanović G. V., Simsek Y.  
Mediterranean Journal of Mathematics, cilt.19, sa.6, 2022 (SCI-Expanded)
- XIII. **Derivation of computational formulas for certain class of finite sums: Approach to generating functions arising from  $p$ -adic integrals and special functions**  
ŞİMŞEK Y.  
Mathematical Methods in the Applied Sciences, cilt.45, sa.16, ss.9520-9544, 2022 (SCI-Expanded)
- XIV. **Formulas for characteristic function and moment generating functions of beta type distribution**  
YALÇIN F., ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.116, sa.2, 2022 (SCI-Expanded)
- XV. **On Generating Functions for Parametrically Generalized Polynomials Involving Combinatorial, Bernoulli and Euler Polynomials and Numbers**  
Bayad A., ŞİMŞEK Y.  
Symmetry, cilt.14, sa.4, 2022 (SCI-Expanded)
- XVI. **FORMULAS AND COMBINATORIAL IDENTITIES FOR CATALAN-TYPE NUMBERS AND POLYNOMIALS: THEIR ANALYSIS WITH COMPUTATIONAL ALGORITHMS**  
Kucukoglu I., ŞİMŞEK Y.  
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.21, sa.2, ss.158-177, 2022 (SCI-Expanded)
- XVII. **Construction and computation of unified Stirling-type numbers emerging from  $p$ -adic integrals and symmetric polynomials**  
KÜÇÜKOĞLU İ., ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.115, sa.4, 2021 (SCI-Expanded)
- XVIII. **Applications of constructed new families of generating-type functions interpolating new and known classes of polynomials and numbers**  
ŞİMŞEK Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.14, ss.11245-11268, 2021 (SCI-Expanded)
- XIX.  **$p$ -Adic  $q$ -Twisted Dedekind-Type Sums**  
Bayad A., ŞİMŞEK Y.  
SYMMETRY-BASEL, cilt.13, sa.9, 2021 (SCI-Expanded)
- XX. **On New Formulas of Fibonacci and Lucas Numbers Involving Golden Ratio Associated with Atomic**

## **Structure in Chemistry**

Battaloglu R., ŞİMŞEK Y.

SYMMETRY-BASEL, cilt.13, sa.8, 2021 (SCI-Expanded)

- XXI. **Multiple Dedekind Type Sums and Their Related Zeta Functions**  
Bayad A., ŞİMŞEK Y.  
MATHEMATICS, cilt.9, sa.15, 2021 (SCI-Expanded)
- XXII. **New Families of Special Polynomial Identities Based upon Combinatorial Sums Related to p-Adic Integrals**  
ŞİMŞEK Y.  
SYMMETRY-BASEL, cilt.13, sa.8, 2021 (SCI-Expanded)
- XXIII. **New Computational Formulas for Special Numbers and Polynomials Derived from Applying Trigonometric Functions to Generating Functions**  
Kılar N., ŞİMŞEK Y.  
MILAN JOURNAL OF MATHEMATICS, cilt.89, sa.1, ss.217-239, 2021 (SCI-Expanded)
- XXIV. **Computational formulas and identities for new classes of Hermite-based Milne-Thomson type polynomials: Analysis of generating functions with Euler's formula**  
KILAR N., ŞİMŞEK Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.8, ss.6731-6762, 2021 (SCI-Expanded)
- XXV. **New integral formulas and identities involving special numbers and functions derived from certain class of special combinatorial sums**  
ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.115, sa.2, 2021 (SCI-Expanded)
- XXVI. **NEW CLASSES OF RECURRENCE RELATIONS INVOLVING HYPERBOLIC FUNCTIONS, SPECIAL NUMBERS AND POLYNOMIALS**  
ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.15, sa.2, ss.1-18, 2021 (SCI-Expanded)
- XXVII. **MATRIX REPRESENTATIONS FOR A CERTAIN CLASS OF COMBINATORIAL NUMBERS ASSOCIATED WITH BERNSTEIN BASIS FUNCTIONS AND CYCLIC DERANGEMENTS AND THEIR PROBABILISTIC AND ASYMPTOTIC ANALYSES**  
KÜÇÜKOĞLU İ., ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.15, sa.1, ss.45-68, 2021 (SCI-Expanded)
- XXVIII. **Computational identities for extensions of some families of special numbers and polynomials**  
KÜÇÜKOĞLU İ., ŞİMŞEK Y.  
TURKISH JOURNAL OF MATHEMATICS, cilt.45, sa.6, ss.1-25, 2021 (SCI-Expanded)
- XXIX. **A New Family of Zeta Type Functions Involving the Hurwitz Zeta Function and the Alternating Hurwitz Zeta Function**  
Kim D., ŞİMŞEK Y.  
MATHEMATICS, cilt.9, sa.3, 2021 (SCI-Expanded)
- XXX. **Identities and relations for Hermite-based Milne-Thomson polynomials associated with Fibonacci and Chebyshev polynomials**  
Kılar N., ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.115, sa.1, 2021 (SCI-Expanded)
- XXXI. **A NEW FAMILY OF COMBINATORIAL NUMBERS AND POLYNOMIALS ASSOCIATED WITH PETERS NUMBERS AND POLYNOMIALS**  
ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.14, sa.3, ss.627-640, 2020 (SCI-Expanded)
- XXXII. **Some new identities and inequalities for Bernoulli polynomials and numbers of higher order related to the Stirling and Catalan numbers**  
GÜN D., ŞİMŞEK Y.

REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.114, sa.4, 2020 (SCI-Expanded)

- XXXIII. **Derivation of computational formulas for Changhee polynomials and their functional and differential equations**  
So J. S., ŞİMŞEK Y.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, cilt.2020, sa.1, 2020 (SCI-Expanded)
- XXXIV. **A New Class of Symmetric Beta Type Distributions Constructed by Means of Symmetric Bernstein Type Basis Functions**  
YALÇIN F., ŞİMŞEK Y.  
SYMMETRY-BASEL, cilt.12, sa.5, 2020 (SCI-Expanded)
- XXXV. **Some New Families of Special Polynomials and Numbers Associated with Finite Operators**  
ŞİMŞEK Y.  
SYMMETRY-BASEL, cilt.12, sa.2, 2020 (SCI-Expanded)
- XXXVI. **Generalized Tepper's Identity and Its Application**  
Kruchinin D., KRUCHININ V., ŞİMŞEK Y.  
MATHEMATICS, cilt.8, sa.2, 2020 (SCI-Expanded)
- XXXVII. **Identities and Relations for Special Numbers and Polynomials: An Approach to Trigonometric Functions**  
Kilar N., ŞİMŞEK Y.  
FILOMAT, cilt.34, sa.2, ss.535-542, 2020 (SCI-Expanded)
- XXXVIII. **On Boole-Type Combinatorial Numbers and Polynomials**  
ŞİMŞEK Y.  
FILOMAT, cilt.34, sa.2, ss.559-565, 2020 (SCI-Expanded)
- XXXIX. **A special approach to derive new formulas for some special numbers and polynomials**  
Kilar N., ŞİMŞEK Y.  
TURKISH JOURNAL OF MATHEMATICS, cilt.44, sa.6, ss.2217-2240, 2020 (SCI-Expanded)
- XL. **Identities and Computation Formulas for Combinatorial Numbers Including Negative Order Changhee Polynomials**  
Kim D., ŞİMŞEK Y., So J. S.  
SYMMETRY-BASEL, cilt.12, sa.1, 2020 (SCI-Expanded)
- XLI. **New classes of Catalan-type numbers and polynomials with their applications related to p-adic integrals and computational algorithms**  
KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.  
TURKISH JOURNAL OF MATHEMATICS, cilt.44, sa.6, ss.2337-2355, 2020 (SCI-Expanded)
- XLII. **IDENTITIES FOR DIRICHLET AND LAMBERT-TYPE SERIES ARISING FROM THE NUMBERS OF A CERTAIN SPECIAL WORD**  
Kucukoglu I., ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.13, sa.3, ss.787-804, 2019 (SCI-Expanded)
- XLIII. **Peters type polynomials and numbers and their generating functions: Approach with p-adic integral method**  
ŞİMŞEK Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.42, sa.18, ss.7030-7046, 2019 (SCI-Expanded)
- XLIV. **ON A FAMILY OF SPECIAL NUMBERS AND POLYNOMIALS ASSOCIATED WITH APOSTOL-TYPE NUMBERS AND POYNOMIALS AND COMBINATORIAL NUMBERS**  
KÜÇÜKOĞLU İ., ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, cilt.13, sa.2, ss.478-494, 2019 (SCI-Expanded)
- XLV. **Two Parametric Kinds of Eulerian-Type Polynomials Associated with Euler's Formula**  
Kilar N., ŞİMŞEK Y.  
SYMMETRY-BASEL, cilt.11, sa.9, 2019 (SCI-Expanded)
- XLVI. **Generating functions for finite sums involving higher powers of binomial coefficients: Analysis of hypergeometric functions including new families of polynomials and numbers**

- ŞİMŞEK Y.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.477, sa.2, ss.1328-1352, 2019 (SCI-Expanded)
- XLVII. **Formulas for Poisson-Charlier, Hermite, Milne-Thomson and other type polynomials by their generating functions and p-adic integral approach**  
ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.113, sa.2, ss.931-948, 2019 (SCI-Expanded)
- XLVIII. **A new family of Lerch-type zeta functions interpolating a certain class of higher-order Apostol-type numbers and Apostol-type polynomials**  
Kucukoglu I., ŞİMŞEK Y., Srivastava H. M.  
QUAESTIONES MATHEMATICAE, cilt.42, sa.4, ss.465-478, 2019 (SCI-Expanded)
- XLIX. **On Generating Functions for Boole Type Polynomials and Numbers of Higher Order and Their Applications**  
ŞİMŞEK Y., So J. S.  
SYMMETRY-BASEL, cilt.11, sa.3, 2019 (SCI-Expanded)
- L. **Multidimensional Bernstein polynomials and Bezier curves: Analysis of machine learning algorithm for facial expression recognition based on curvature**  
KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.344, ss.150-162, 2019 (SCI-Expanded)
- LI. **IDENTITIES AND RELATIONS ON THE q-APOSTOL TYPE FROBENIUS-EULER NUMBERS AND POLYNOMIALS**  
KUCUKOGLU I., ŞİMŞEK Y.  
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, cilt.56, sa.1, ss.265-284, 2019 (SCI-Expanded)
- LII. **On interpolation functions for the number of k-ary Lyndon words associated with the Apostol-Euler numbers and their applications**  
Kucukoglu I., ŞİMŞEK Y.  
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, cilt.113, sa.1, ss.281-297, 2019 (SCI-Expanded)
- LIII. **Identities, inequalities for Boole-type polynomials: approach to generating functions and infinite series**  
ŞİMŞEK Y., So J. S.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, cilt.2019, 2019 (SCI-Expanded)
- LIV. **An approach to negative hypergeometric distribution by generating function for special numbers and polynomials**  
KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.  
TURKISH JOURNAL OF MATHEMATICS, cilt.43, sa.5, ss.2337-2353, 2019 (SCI-Expanded)
- LV. **Construction method for generating functions of special numbers and polynomials arising from analysis of new operators**  
ŞİMŞEK Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.41, sa.16, ss.6934-6954, 2018 (SCI-Expanded)
- LVI. **Generating functions for unification of the multidimensional Bernstein polynomials and their applications**  
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- LXXIV. **A new family of numbers and polynomials related to characters of finite abelian group**  
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**C. A Note On Combinatorial Sums**

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Özdemir G., ŞİMŞEK Y.

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İrem K., ŞİMŞEK Y.

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**CIII. On Generating Functions for the Special Polynomials**

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**CV. Bernstein basis functions related to combinatorial sums involving binomial coefficients and special numbers**

ŞİMŞEK Y.

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**CVII. On generating functions for special numbers and polynomials and their applications**

ŞİMŞEK Y.

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**CVIII. A note on Stirling type numbers and Array type polynomials**

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**CIX. A Note on Dedekind Eta Function**

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27. Ulusal Matematik Sempozyumu, İstanbul, Türkiye, 26 - 29 Ağustos 2014, ss.1
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27. Ulusal Matematik Sempozyumu, İstanbul, Türkiye, 26 - 29 Ağustos 2014, cilt-
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- CXVIII. **Remark on interpolation functions for the q-analogue of the Eulerian numbers**  
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The 27 international conference of the Jangjeon Mathematical Society, Daejeon, Güney Kore, 2 - 04 Ağustos 2014, ss.27
- CXIX. **Generating functions on q-Calculus**  
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- CXXIII. **Remarks on the Bernstein basis functions and their applications**  
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ŞİMŞEK Y.  
26. ULUSAL MATEMATİK SEMPOZYUMU, Diyarbakır, Türkiye, 1 - 04 Eylül 2013
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- CXXVI. **Identities for some special polynomials**  
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- CXXVII. **Array type polynomials**  
ŞİMŞEK Y.

- Special Polynomials and their applications Mysore- India, Hindistan, 1 - 04 Ağustos 2013
- CXXVIII. **Identities for Some Special Polynomials**  
DERE R., ŞİMŞEK Y.  
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- CXXIX. **Application on the beta polynomials**  
ŞİMŞEK Y.  
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- CXXX. **Identities for Some Special Polynomials**  
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28th Journées Arithmétiques, Grenoble-FRANCE, Fransa, 1 - 04 Temmuz 2013
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- CXXXIII. **Remarks on  $Y(h,k)$**   
ŞİMŞEK Y.  
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- CXXXIV. **Remarks on Beta polynomials**  
ŞİMŞEK Y.  
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- CXXXV. **PDEs related to generating functions for Bernstein polynomials**  
ŞİMŞEK Y.  
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- CXXXVI. **p-adic q-integral and some family of L-functions and their applications**  
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- CXXXVIII. **p-adic Dedekind Toplamları**  
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XXIV. National Matematik symposium, Bursa, Türkiye, 1 - 04 Eylül 2012
- CXXXIX. **Relations between theta-functions and Hardy-Berndt type sums**  
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, Building Bridges: 1st US-EU conference on Automorphic Forms and related topics, Aachen-Germany., Almanya, 1 - 04 Ağustos 2012
- CXL. **Matrix representation of partial Hecke type operators and their applications**  
ŞİMŞEK Y., Aygüneş A. A.  
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- CXLI. **Normalized polynomials and their multiplication formulas**  
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ŞİMŞEK Y., Kurt B.  
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- CXLIII. Remarks on unification of the Bernstein type polynomials**  
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- CXLIV. APPLICATIONS OF UMBRAL ALGEBRA TO SOME SPECIAL POLYNOMIALS**  
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- CXLV. APPLICATIONS OF UMBRAL ALGEBRA TO SOME SPECIAL POLYNOMIALS**  
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- CXLVI. On interpolation function of the Bernstein polynomials**  
ŞİMŞEK Y.  
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- CXLVII. Remarks on Hecke type operators**  
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- CXLVIII. Applications of Umbral Algebra to Some Special Polynomials**  
ŞİMŞEK Y., Dere R.  
25th International Conference of the Jangjeon Mathematical Society (ICJMS 2012), Güney Kore, 1 - 04 Temmuz 2012
- CXLIX. Generating Functions for special polynomials and their applications**  
ŞİMŞEK Y.  
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- CL. On Generating functions for the Bernstein basis functions and their applications**  
ŞİMŞEK Y.  
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- CLI. On Dedekind type DC-sums and their applications**  
ŞİMŞEK Y.  
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- CLII. Remarks on Eulerian numbers and polynomials**  
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- CLIII. Remarks on the Frobenius-Euler Polynomials on the Umbral Algebra**  
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International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Yunanistan, 19 - 25 Eylül 2012, cilt.1479, ss.348-351
- CLIV. Relations between Eulerian Polynomials and Array Polynomials**  
Simsek Y.  
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ŞİMŞEK Y.  
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- CLVI. The action of Umbral Algebra to the Hermite based Euler type polynomials**  
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- CLVIII. **q-Frobenius Euler numbers related to the (q-)Bernstein type polynomials**  
ŞİMŞEK Y., Açıkgöz M., Bayad A., Lokesha V.  
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- CLIX. **Bernoulli type polynomials on Umbral algebra**  
DERE R., ŞİMŞEK Y.  
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- CLX. **Bernoulli type polynomials on Umbral algebra**  
DERE R., ŞİMŞEK Y.  
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- CLXI. **Bernoulli Type Polynomials on Umbral Algebra**  
ŞİMŞEK Y., Dere R.  
The 24 th International Conference of The Jangjeon Mathematical Society, Konya-TURKEY, Türkiye, 1 - 04 Temmuz 2011, ss.67
- CLXII. **A unified approach to deriving identities for Bernoulli, Euler and Bernstein polynomials**  
ŞİMŞEK Y.  
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- CLXIII. **On The Hermite Based-Second Kind Genocchi polynomials**  
ŞİMŞEK Y., Kurt B.  
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- CLXIV. **On generating functions for the Bernstein polynomials**  
ŞİMŞEK Y.  
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- CLXV. **A note on unification of multiple zeta functions**  
ŞİMŞEK Y., Aygüneş A. A.  
The 24 th International Conference of The Jangjeon Mathematical Society, Konya-TURKEY, Türkiye, 1 - 04 Temmuz 2011, ss.56
- CLXVI. **Unification of the Bernoulli, Euler and Genocchi numbers and polynomials related to the family of zeta functions**  
ŞİMŞEK Y.  
Arctic Number Theory School, Helsinki-Finland, Finlandiya, 1 - 04 Mayıs 2011
- CLXVII. **Frobenius-Euler Type Polynomials Related to Hermite-Bernoulli Polynomials**  
KURT B., ŞİMŞEK Y.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Halkidiki, Yunanistan, 19 - 25 Eylül 2011, cilt.1389
- CLXVIII. **Note on the Hurwitz Zeta Function of Higher Order**  
Bayad A., ŞİMŞEK Y.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Halkidiki, Yunanistan, 19 - 25 Eylül 2011, cilt.1389
- CLXIX. **Remarks on the Weber Functions and Dedekind Sums**  
Aygunes A. A., ŞİMŞEK Y.  
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- CLXX. **Genocchi polynomials associated with the Umbral algebra**

DERE R., ŞİMŞEK Y.

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**CLXXI. Genocchi polynomials associated with the Umbral algebra**

DERE R., ŞİMŞEK Y.

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**CLXXII. Genocchi polynomials associated with the Umbral Algebra**

ŞİMŞEK Y., Dere R.

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary at Uludag University, Bursa-Turkey, Türkiye, 1 - 04 Ağustos 2010

**CLXXIII. The action of Hecke operators to families of Weierstrass type functions and Weber type functions and their applications**

ŞİMŞEK Y., Aygüneş A. A.

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary at Uludag University, Bursa-Turkey, Türkiye, 1 - 04 Ağustos 2010

**CLXXIV. q-Bernoulli type polynomials of higher order associated with Multiple q-zeta functions**

ŞİMŞEK Y.

The XIth meeting of the Canadian Number Theory Association at Acadia University, Wolfville, Nova Scotia Canada, Kanada, 1 - 04 Temmuz 2010

**CLXXV. Interpolation Function of Generalized q-Bernstein type polynomials and their application**

ŞİMŞEK Y.

Seventh International Conference on Curves and Surfaces, Avignon-France, Fransa, 1 - 04 Haziran 2010

**CLXXVI. Genocchi type polynomials related to arbitrary positive real parameters and their interpolation function**

ŞİMŞEK Y.

The 23th International Conference of The Jangjeon Mathematical Society at Shahid Chamran University, Ahvaz-Iran, İran, 1 - 04 Şubat 2010

**CLXXVII. Hecke Operators Related to the Generalized Dedekind Eta Functions and Applications**

Aygunes A. A., ŞİMŞEK Y.

International Conference on Numerical Analysis and Applied Mathematics, Rhodes, Yunanistan, 19 - 25 Eylül 2010, cilt.1281, ss.1098-1101

**CLXXVIII. A Note on Interpolation Functions of the Frobenius-Euler Numbers**

Cangul I. N., ŞİMŞEK Y.

2nd International Conference on Application of Mathematics in Technical and Natural Sciences, Sozopol, Bulgaristan, 21 - 26 Haziran 2010, cilt.1301, ss.59-61

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ŞİMŞEK Y.

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Yayın: 499

Atf (WoS): 2305

Atf (Scopus): 2948

H-İndeks (WoS): 26

H-İndeks (Scopus): 29

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Caucasian Mathematics Conference II (CMC - II), VAN, TURKEY, 22-24 August 2017, Katılımcı, Van, Türkiye, 2017

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14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2016) , Rhodes, GREECE, 19-25 September 2016, Katılımcı, Ródos, Yunanistan, 2016

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The 12th International Conference on Finite Fields and Their Applications 13-17 July 2015 Skidmore College Saratoga Springs NY USA, Katılımcı, New York, Amerika Birleşik Devletleri, 2015

29th Journées Arithmétiques 06-10 July 2015 Debrecen-HUNGARY, Katılımcı, Debrecen, Macaristan, 2015

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9th International Statistics day Symposium 2014, Katılımcı, Side-Antalya, Türkiye, 2014

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26. ULUSAL MATEMATİK SEMPOZYUMU, Katılımcı, Diyarbakır, Türkiye, 2013

Special Polynomials and their applications/IDENTITIES FOR SOME SPECIAL POLYNOMIALS, Katılımcı, Mysore, Hindistan, 2013

26th International Conference of Jangjeon Mathematical Society/APPLICATIONS ON THE BETA POLYNOMIALS, Katılımcı, Bangalore, Hindistan, 2013

28th Journées Arithmétiques/Remarks On Eulerian Polynomials and Numbers, Katılımcı, Grenobel, Fransa, 2013

4th International Conference on Mathematical and Computational Applications/Identities associated with generalized Stirling type numbers and Eulerian type polynomials, Katılımcı, Manisa, Türkiye, 2013

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2013)/Remarks on  $Y(h,k)$ , Katılımcı, İstanbul, Türkiye, 2013

Great Plains Operator Theory Symposium/PDEs related to generating functions for Bernstein polynomials, Katılımcı, BERKELEY, Amerika Birleşik Devletleri, 2013

1st International Western Balkan Conference of Mathematical Sciences (IWBCMS)/Remarks on Beta polynomials, Katılımcı, Elbasan, Arnavutluk, 2013

2013 AAPT Winter Meeting/p-adic q-integral and some family of L-functions and their applications, Katılımcı, New Orleans, Amerika Birleşik Devletleri, 2013

34. Turkish National Ear, Nose and Throat and Head Surgery, Katılımcı, Antalya, Türkiye, 2012

10th International Conference of Numerical Analysis and Applied Mathematics/i) Relations between Eulerian polynomials and Array Polynomials, ii) Remarks on the Frobenius-Euler polynomials on the umbral algebra with R. Dere, Katılımcı, Kos, Yunanistan, 2012

1st US-EU conference on Automorphic Forms and related topics/Relations between theta-functions and Hardy-Berndt type sums, Building Bridges, Katılımcı, Aachen, Almanya, 2012

International Congress in Honour of Professor Hari M. Srivastava/i) Remarks on unification of the Bernstein type polynomials, ii) Matrix representation of partial Hecke type operators and their applications with A. A. Aygunes, iii) Normalized polynomials and their multiplication formulas with R. Dere, iv) Unified representation of the family of L-functions with H. Ozden, v) On the Generalized Apostol Type Frobenius-Euler Polynomials with. B. Kurt, Katılımcı, Bursa, Türkiye, 2012

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Eighth International Conference on Mathematical Methods for Curves and Surfaces/On Generating functions for the Bernstein basis functions and their applications, Katılımcı, Oslo, Norveç, 2012

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International Conference on the Applications of Computer Science and Mathematics in Architecture and Civil Engineering/On interpolation function of the Bernstein polynomials, Katılımcı, Weimar, Almanya, 2012

Slovak and Czech Conference on Number Theory/Remarks on Eulerian numbers and polynomials, 12th Colloquiumfest on Algebra and Logic and 9th Polish, Katılımcı, Ostrava, Çek Cumhuriyeti, 2012

International Workshop on number Theory related to Generating functions and their Arithmetic/Generating functions for classes of the special polynomials and numbers, Katılımcı, Paris, Fransa, 2011

XXIV. National Matematik symposium,, Katılımcı, Bursa, Türkiye, 2011

8th International Conference of Numerical Analysis and Applied Mathematics ICNAAM2010, Katılımcı, Hilkidiki, Yunanistan, 2011

The 24 th International Conference of The Jangjeon Mathematical Society/i) A note on unification of multiple zeta functions ( with A. A. Aygunes), ii) Bernoulli Type Polynomials on Umbral Algebra (with R. Dere), iii) On The Hermite Based-Second Kind Genocchi polynomials (with B. Kurt), Katılımcı, Konya, Türkiye, 2011

27 th Journées Arithmétiques/A unified approach to deriving identities for Bernoulli, Euler and Bernstein polynomials, Katılımcı, Vilnius, Litvanya, 2011

The International Conference on Applied Analysis and algebra (ICAAA2011)/On generating functions for the Bernstein polynomials, Katılımcı, İstanbul, Türkiye, 2011

Arctic Number Theory School/Unification of the Bernoulli, Euler and Genocchi numbers and polynomials related to the family of zeta functions, Katılımcı, Helsinki, Finlandiya, 2011

8th International Conference of Numerical Analysis and Applied Mathematics ICNAAM2010/i)q-Frobenius-Euler Polynomials Related to the (q-)Bernstein Type Polynomials, with Mehmet Acikgoz, Abdelmejid Bayad and V. Lokesha, ii) Hecke Operators Related to the Generalized Dedekind Eta Functions and Applications, with A. Ahmet Aygunes, Katılımcı, Rhodes, Yunanistan, 2010

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary at Uludag University/i)Construction a new generating function of Bernstein type polynomials, ii) The action of Hecke operators to families of Weierstrass type functions and Weber type functions and their applications with A. Ahmet Aygunes, ii) Notes on generalization of the Bernoulli type polynomials with Burak Kurt, iii) Genocchi polynomials associated with the Umbral Algebra with Rahime Dere, Katılımcı, Bursa, Türkiye, 2010

The XIth meeting of the Canadian Number Theory Association at Acadia University/q-Bernoulli type polynomials of higher order associated with Multiple q-zeta functions, Katılımcı, Wolfville, Nova Scotia , Kanada, 2010

Seventh International Conference on Curves and Surfaces/Interpolation Function of Generalized q-Bernstein type polynomials and their application, Katılımcı, Avignon, Fransa, 2010

The 23th International Conference of The Jangjeon Mathematical Society at Shahid Chamran University/Genocchi type polynomials related to arbitrary positive real parameters and their interpolation function, Katılımcı, Ahvaz, İran, 2010

The Banff International Research Station BIRS Scientific Director/Dedekind-type sums, workshop on Dedekind sums in geometry, topology, and arithmetic, Katılımcı, Nassif Ghoussoub, Türkiye, 2009

7th International Conference of Numerical Analysis and Applied Mathematics/ i) Remarks on Interpolation Function of Higher Order (h, q)-Bernoulli Numbers with A. A. Aygunes, ii) Applications of Hecke Operator to Generalized Dedekind Eta Functions with M. Acikgoz, I. N. Cangul, D. Kim, iii) A p-adic Look at the Diophantine Equation  $x^2 + 112k = y^n$  with I. N. Cangul, G. Soydan, iv) Hurwitz Type Multiple Genocchi Zeta Function with H. Ozden, I. N. Cangul, Katılımcı, Crete, Yunanistan, 2009

The 22th International Conference of The Jangjeon Mathematical Society at Adichunchanagiri Institute of Technology Chikmagalur/On Dedekind type DC-Sum, Katılımcı, Karnataka, Hindistan, 2009

The One Day International Workshop on Mathematics and Its Applications to Engineering and Thechnology” at S.J.C. Institute of Technology Chikballapur/p-adic q-L-functions, Katılımcı, Karnataka, Hindistan, 2009

6th International Conference of Numerical Analysis and Applied Mathematics/Multiple Interpolation Functions of Higher Order (h,q)-Bernoulli Numbers, Katılımcı, Kos, Yunanistan, 2008

The 20th International Conference of The Jangjeon Mathematical Society” at Uludag University/On p-adic q-Dedekind type sums, Katılımcı, Bursa, Türkiye, 2008

The 16th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications/p-adic Dedekind and Hardy-Berndt sums related to Volkenborn integral on  $\mathbb{Z}_p$ , Katılımcı, Gyeongju, Güney Kore, 2008

Workshop on p-adic Fourier Analysis, Katılımcı, Seoul, Güney Kore, 2008

Institute for Mathematical Science/Twisted p-adic L-function, Worksop on Modular Forms and Their Applications, Katılımcı, Daejon, Güney Kore, 2008

The International Federation of Nonlinear Analysts (IFNA) WCNA/q-Hardy-Berndt type sums associated with q-Genocchi type zeta and q-l-functions, Katılımcı, Orlando, Amerika Birleşik Devletleri, 2008

The Workshop on Mathematical Methods in Applied Sciences/On generating functions of the Bernoulli polynomials with applications, Katılımcı, Bursa, Türkiye, 2008

ICTAMI- International Conference on Theory and Applications in Mathematics and Informatics/p-adic q-L-functions,

Katılımcı, Alba Iulia, Romanya, 2007

International Symposium on Geometric Function Theory and application/On generating functions of q-Euler numbers and Polynomials, Katılımcı, İstanbul, Türkiye, 2007

International Symposium on Complex Function Theory/Elliptic analogue of the Hardy sums related to elliptic Bernoulli functions, Katılımcı, Sibiu, Romanya, 2007

Workshop on p-adic analysis and its applications, Katılımcı, Taegu, Güney Kore, 2007

The 19th International Conference of The Jangjeon Mathematical Society/Remarks on q-Barnes's multiple zeta function and q-Barnes multiple Bernoulli polynomials, Katılımcı, Bangalore, Hindistan, 2007

The 17th International Conference of The Jangjeon Mathematical Society/Generating function of the twisted q-Bernoulli polynomials and numbers related to their interpolation functions, Katılımcı, Taegu, Güney Kore, 2006

On the 17th International Conference of the Jangjeon Mathematical Society/On twisted q-Bernoulli Numbers and twisted q-L-functions, Katılımcı, Daegu, Güney Kore, 2006

International Semposium On Analytic Function Theory, Fractional Calculus and Their Applications In Honour of Professor H. M. Srivastava on his 65th Birth Anniversary/On twisted q-Hurwitz zeta function and q-two-variable L-function, Katılımcı, Victorya, Kanada, 2005

The 16th International Conference of the Jangjeon Mathematical Society Akdeniz University/Remarks On Reciprocity Laws of the Dedekind and Hardy Sums, Katılımcı, Antalya, Türkiye, 2005

2005 Algebraic Geometry-Number Theory Camp, KAIST, Katılımcı, Daejeon, Güney Kore, 2005

Workshop on p-adic q- Special Functions and their applications, Katılımcı, Taegu, Türkiye, 2005

International Workshop on Analysis and Its Application/On relations between q-Dirichlet L functions, q-Hurwitz zeta function and q-Dedekind sums, Katılımcı, Mersin, Türkiye, 2004

Proceedings of The 15th International Conference of the Jangjeon Mathematical Society/On Generalized q-Hardy Character Sums, Katılımcı, Hapcheon-Dong, Güney Kore, 2004

The Proceedings of the 14th International Conference of the Jangjeon Mathematical Society/On normalized Eisenstein series and new theta functions,, Katılımcı, Maysore, Hindistan, 2003

International Mathematical Conference VI.th Bogolubov Readings/Theorems on Weierstrass  $P(z)$  Function Hardy sums and Eisenstein series, Katılımcı, Kiev, Ukrayna, 2003

XV. National Matematik symposium, Katılımcı, Mersin, Türkiye, 2002

XIV. National Matematik symposium, Katılımcı, Eskişehir, Türkiye, 2001

XI. National Matematik symposium, Katılımcı, Isparta, Türkiye, 1998

X. National Matematik symposium, Katılımcı, Bolu, Türkiye, 1997

XIII. National Matematik symposium,, Katılımcı, Adana, Türkiye, 1995

IV. National Matematik symposium, Katılımcı, Hatay, Türkiye, 1991

III. National Matematik symposium, Katılımcı, Van, Türkiye, 1990

## Ödüller

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