

## Prof. YILMAZ ŞİMŞEK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-1654-2016

ScopusID: 21733344000

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### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, Turkey 1990 - 1993

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1988 - 1990

Undergraduate, Cukurova University, Fen Edebiyat, Matematik, Turkey 1983 - 1987

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Dedekind ve Hardy Toplamlarının genelleştirilmesi, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1993

Postgraduate, Hermityan Matris Eşitsizlikleri, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1990

### Research Areas

Mathematics, General Mathematics, Natural Sciences

### Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2012 - Continues

Associate Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2007 - 2012

Assistant Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2005 - 2007

Assistant Professor, Mersin University, Fen Edebiyat Fakültesi/Matematik, Matematik, 1993 - 2005

Lecturer, Cukurova University, Mersin Meslek Yüksek Okulu, Teknik Birimler, 1988 - 1993

## Academic and Administrative Experience

Mersin University, Fen Bilimleri Enstitüsü, 1996 - 1998

Mersin University, Matematik, 1993 - 1994

## Courses

Karmaşık Analiz I ve II, Undergraduate, 2021 - 2022

Kısmi Diferansiyel Denklemler, Undergraduate, 2021 - 2022

Özel Fonksiyonlar I ve II, Postgraduate, 2018 - 2019

Analitik Sayılar Teorisi, Postgraduate, 2017 - 2018

Olasılık, Undergraduate, 2013 - 2014

Diferansiyel Denklemler Teorisine Giriş, Undergraduate, 2013 - 2014

P-Adik Sayılar, Doctorate, 2013 - 2014

Olasılık ve Ölçüm Kuramı, Postgraduate, 2013 - 2014

## Advising Theses

ŞİMŞEK Y., xx, Doctorate, D.GÜN(Student), Continues

ŞİMŞEK Y., Leibnitz tipli sayılar ile bazı özel toplamlar arasındaki ilişkiler, Postgraduate, D.KAYA(Student), Continues

ŞİMŞEK Y., xx, Postgraduate, Y.ÇETİN(Student), Continues

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

ŞİMŞEK Y., B-SPLİNE EĞRİLERİ İLE EULERIAN TIPLI POLİNOMLAR ARASINDAKİ İLİŞKİLER VE BUNLARIN UYGULAMALARI, Postgraduate, D.GÜN(Student), 2020

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

ŞİMŞEK Y., SONLU LEKSİKOGRAFİKAL SIRALI ALFABE ÜZERİNDE TANIMLI KELİMELER VE DE BRUIJN TIPLI DİZİLERİ İÇEREN ÜRETEÇ FONKSİYONLARI VE BUNLARIN UYGULAMALARI, Doctorate, İ.KÜÇÜKOĞLU(Student), 2018

ŞİMŞEK Y., ÇOK DEĞİŞKENLİ FIBONACCI TIPLI POLİNOMLAR İÇİN ÜRETEÇ FONKSİYONLARI VE UYGULAMALARI, Doctorate, G.Özdemir(Student), 2017

ŞİMŞEK Y., Sonlu Özel Toplamlar, Doctorate, E.Çetin(Student), 2017

ŞİMŞEK Y., Fubini tipli sayılar ve bunların üreteç fonksiyonları, Postgraduate, N.KILAR(Student), 2017

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

ŞİMŞEK Y., KOMBİNATORİK TOPLAMLAR VE BUNLARIN OLASILIK VE İSTATİSTİKTEKİ UYGULAMALARI, Postgraduate, H.Amrani(Student), 2016

ŞİMŞEK Y., Merkezi faktöriyel sayılarının üreteç fonksiyonları ve uygulamaları, Postgraduate, Ü.Başar(Student), 2016

ŞİMŞEK Y., MERKEZİ FAKTÖRİYEL SAYILARININ ÜRETEÇ FONKSİYONLARI VE UYGULAMALARI, Postgraduate, Ü.Başar(Student), 2015

ŞİMŞEK Y., On multidimensional Hermite base Appell polynomials, Doctorate, B.KURT(Student), 2013

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

ŞİMŞEK Y., Hecke type operators and their applications, Doctorate, A.AHMET(Student), 2012

ŞİMŞEK Y., Hecke tipi operatörler ve uygulamaları, Doctorate, A.Ahmet(Student), 2012

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

ŞİMŞEK Y., Umbral cebir üzerinde bazı özel polinomların üreteç fonksiyonları ve uygulamaları, Postgraduate, R.Dere(Student), 2011

ŞİMŞEK Y., Hermite Apostol-Bernoulli polynomials, Postgraduate, B.KURT(Student), 2009

ŞİMŞEK Y., On p-adic q-measure and their applications, Doctorate, H.ÖZDEN(Student), 2009  
ŞİMŞEK Y., Generating Functions of Bernoulli Numbers, Postgraduate, S.SELEN(Student), 2009  
ŞİMŞEK Y., Teaching Series to highschool students, Postgraduate, F.AKGÜL(Student), 2005  
ŞİMŞEK Y., Relations between Eisenstein series and Dedekind sums, Postgraduate, E.KARLIK(Student), 2004  
ŞİMŞEK Y., q- Bernoulli Polynomials and numbers, Postgraduate, N.TEPE(Student), 2004  
ŞİMŞEK Y., P-adic Hardy sums, Postgraduate, Y.ÇETİNKAYA(Student), 2002  
ŞİMŞEK Y., On relations between Weierstrass P-functions, theta functions and Dedekind sums, Postgraduate, C.TAŞKIN(Student), 1997

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Akdeniz Üniversitesi Profesör atama, Akdeniz Üniversitesi , May, 2015  
Appointment to Academic Staff-Assistant Professorship, Doğu Akdeniz Üniversitesi Profesör ataması, Doğu Akdeniz Üniversitesi, December, 2014  
Appointment to Academic Staff-Assistant Professorship, Profesörlük Atama, İstanbul Arel Üniversitesi, February, 2014  
Appointment to Academic Staff-Assistant Professorship, Profesörlük Atama, Adıyaman Üniversitesi, January, 2014  
Appointment to Academic Staff-Assistant Professorship, Doçentlik Atama Jazan University, Jazan University, January, 2014  
Associate Professor Exam, Doçentlik-Uluslararası Kıbrıs Üniversitesi, Uluslararası Kıbrıs Üniversitesi, July, 2013  
Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. Dr, Uludağ Üniversitesi, September, 2012  
Appointment to Academic Staff-Assistant Professorship, Konya Selçuk Üniversitesi, Konya Selçuk Üniversitesi, January, 2006

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

- 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, vol.118, no.92, pp.1-52, 2024 (SCI-Expanded)
- II. **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, vol.118, no.57, pp.1-17, 2024 (SCI-Expanded)
- III. **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, vol.18, no.2, pp.452-476, 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, vol.12, no.1, pp.1-20, 2024 (SCI-Expanded)
- V. **Identities and Approximation Formulas for Faulhaber'S Formula Revealing in Applications of Moment Generating Function, Distribution, and Arithmetic Functions**  
Simsek B., ŞİMŞEK Y., ŞÜKRÜOĞLU E.  
Mathematical Methods in the Applied Sciences, 2024 (SCI-Expanded)
- VI. **On the generating functions and special functions associated with superoscillations**

- Colombo F., Krausshar R., Sabadini I., ŞİMŞEK Y.  
Discrete Applied Mathematics, vol.340, pp.215-227, 2023 (SCI-Expanded)
- VII. **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, vol.117, no.3, pp.1-26, 2023 (SCI-Expanded)
- VIII. **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, vol.61, no.3, pp.731-756, 2023 (SCI-Expanded)
- IX. **Modification exponential Euler type splines derived from Apostol-Euler numbers and polynomials of complex order**  
Gün D., Simsek Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.17, no.1, pp.197-215, 2023 (SCI-Expanded)
- X. **Generating functions for series involving higher powers of inverse binomial coefficients and their applications**  
Şimşek Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.46, no.18, pp.1-27, 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, vol.47, no.2, pp.830-845, 2023 (SCI-Expanded)
- XII. **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, vol.117, no.1, 2023 (SCI-Expanded)
- XIII. **Analysis of Generating Functions for Special Words and Numbers and Algorithms for Computation**  
Kucukoglu I., Milovanović G. V., Simsek Y.  
Mediterranean Journal of Mathematics, vol.19, no.6, 2022 (SCI-Expanded)
- XIV. **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, vol.45, no.16, pp.9520-9544, 2022 (SCI-Expanded)
- XV. **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, vol.116, no.2, 2022 (SCI-Expanded)
- XVI. **On Generating Functions for Parametrically Generalized Polynomials Involving Combinatorial, Bernoulli and Euler Polynomials and Numbers**  
Bayad A., ŞİMŞEK Y.  
Symmetry, vol.14, no.4, 2022 (SCI-Expanded)
- XVII. **FORMULAS AND COMBINATORIAL IDENTITIES FOR CATALAN-TYPE NUMBERS AND POLYNOMIALS: THEIR ANALYSIS WITH COMPUTATIONAL ALGORITHMS**  
Kucukoglu I., ŞİMŞEK Y.  
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.21, no.2, pp.158-177, 2022 (SCI-Expanded)
- XVIII. **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, vol.115, no.4, 2021 (SCI-Expanded)

- XIX. **p-Adic q-Twisted Dedekind-Type Sums**  
Bayad A., ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.13, no.9, 2021 (SCI-Expanded)
- XX. **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, vol.44, no.14, pp.11245-11268, 2021 (SCI-Expanded)
- XXI. **Multiple Dedekind Type Sums and Their Related Zeta Functions**  
Bayad A., ŞİMŞEK Y.  
MATHEMATICS, vol.9, no.15, 2021 (SCI-Expanded)
- XXII. **On New Formulas of Fibonacci and Lucas Numbers Involving Golden Ratio Associated with Atomic Structure in Chemistry**  
Battaloglu R., ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.13, no.8, 2021 (SCI-Expanded)
- XXIII. **New Families of Special Polynomial Identities Based upon Combinatorial Sums Related to p-Adic Integrals**  
ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.13, no.8, 2021 (SCI-Expanded)
- XXIV. **New Computational Formulas for Special Numbers and Polynomials Derived from Applying Trigonometric Functions to Generating Functions**  
Kılar N., ŞİMŞEK Y.  
MILAN JOURNAL OF MATHEMATICS, vol.89, no.1, pp.217-239, 2021 (SCI-Expanded)
- XXV. **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, vol.44, no.8, pp.6731-6762, 2021 (SCI-Expanded)
- XXVI. **NEW CLASSES OF RECURRENCE RELATIONS INVOLVING HYPERBOLIC FUNCTIONS, SPECIAL NUMBERS AND POLYNOMIALS**  
ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.15, no.2, pp.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, vol.15, no.1, pp.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, vol.45, no.6, pp.1-25, 2021 (SCI-Expanded)
- XXIX. **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, vol.115, no.2, 2021 (SCI-Expanded)
- XXX. **A New Family of Zeta Type Functions Involving the Hurwitz Zeta Function and the Alternating Hurwitz Zeta Function**  
Kim D., ŞİMŞEK Y.  
MATHEMATICS, vol.9, no.3, 2021 (SCI-Expanded)
- XXXI. **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, vol.115,

- no.1, 2021 (SCI-Expanded)
- XXXII. **A NEW FAMILY OF COMBINATORIAL NUMBERS AND POLYNOMIALS ASSOCIATED WITH PETERS NUMBERS AND POLYNOMIALS**  
ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.14, no.3, pp.627-640, 2020 (SCI-Expanded)
- XXXIII. **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, vol.114, no.4, 2020 (SCI-Expanded)
- XXXIV. **Derivation of computational formulas for Changhee polynomials and their functional and differential equations**  
So J. S., ŞİMŞEK Y.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)
- XXXV. **A New Class of Symmetric Beta Type Distributions Constructed by Means of Symmetric Bernstein Type Basis Functions**  
YALÇIN F., ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.12, no.5, 2020 (SCI-Expanded)
- XXXVI. **Some New Families of Special Polynomials and Numbers Associated with Finite Operators**  
ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.12, no.2, 2020 (SCI-Expanded)
- XXXVII. **Generalized Tepper's Identity and Its Application**  
Kruchinin D., KRUCHININ V., ŞİMŞEK Y.  
MATHEMATICS, vol.8, no.2, 2020 (SCI-Expanded)
- XXXVIII. **Identities and Relations for Special Numbers and Polynomials: An Approach to Trigonometric Functions**  
Kilar N., ŞİMŞEK Y.  
FILOMAT, vol.34, no.2, pp.535-542, 2020 (SCI-Expanded)
- XXXIX. **Identities and Computation Formulas for Combinatorial Numbers Including Negative Order Changhee Polynomials**  
Kim D., ŞİMŞEK Y., So J. S.  
SYMMETRY-BASEL, vol.12, no.1, 2020 (SCI-Expanded)
- XL. **On Boole-Type Combinatorial Numbers and Polynomials**  
ŞİMŞEK Y.  
FILOMAT, vol.34, no.2, pp.559-565, 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, vol.44, no.6, pp.2337-2355, 2020 (SCI-Expanded)
- XLII. **A special approach to derive new formulas for some special numbers and polynomials**  
Kilar N., ŞİMŞEK Y.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.6, pp.2217-2240, 2020 (SCI-Expanded)
- XLIII. **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, vol.13, no.3, pp.787-804, 2019 (SCI-Expanded)
- XLIV. **Peters type polynomials and numbers and their generating functions: Approach with p-adic integral method**  
ŞİMŞEK Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.18, pp.7030-7046, 2019 (SCI-Expanded)
- XLV. **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, vol.13, no.2, pp.478-494, 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, vol.477, no.2, pp.1328-1352, 2019 (SCI-Expanded)
- XLVII. **Two Parametric Kinds of Eulerian-Type Polynomials Associated with Euler's Formula**  
Kilar N., ŞİMŞEK Y.  
SYMMETRY-BASEL, vol.11, no.9, 2019 (SCI-Expanded)
- XLVIII. **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, vol.113, no.2, pp.931-948, 2019 (SCI-Expanded)
- XLIX. **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, vol.42, no.4, pp.465-478, 2019 (SCI-Expanded)
- L. **On Generating Functions for Boole Type Polynomials and Numbers of Higher Order and Their Applications**  
ŞİMŞEK Y., So J. S.  
SYMMETRY-BASEL, vol.11, no.3, 2019 (SCI-Expanded)
- LI. **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, vol.344, pp.150-162, 2019 (SCI-Expanded)
- LII. **IDENTITIES AND RELATIONS ON THE q-APOSTOL TYPE FROBENIUS-EULER NUMBERS AND POLYNOMIALS**  
KUCUKOGLU I., ŞİMŞEK Y.  
JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, no.1, pp.265-284, 2019 (SCI-Expanded)
- LIII. **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, vol.113, no.1, pp.281-297, 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, vol.43, no.5, pp.2337-2353, 2019 (SCI-Expanded)
- LV. **Identities, inequalities for Boole-type polynomials: approach to generating functions and infinite series**  
ŞİMŞEK Y., So J. S.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2019, 2019 (SCI-Expanded)
- LVI. **Generating functions for unification of the multidimensional Bernstein polynomials and their applications**  
Simsek Y.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.41, no.17, pp.7170-7181, 2018 (SCI-Expanded)
- LVII. **Construction method for generating functions of special numbers and polynomials arising from analysis of new operators**  
ŞİMŞEK Y.

- MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.41, no.16, pp.6934-6954, 2018 (SCI-Expanded)
- LVIII. **NEW FAMILIES OF SPECIAL NUMBERS FOR COMPUTING NEGATIVE ORDER EULER NUMBERS AND RELATED NUMBERS AND POLYNOMIALS**  
ŞİMŞEK Y.  
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.12, no.1, pp.1-35, 2018 (SCI-Expanded)
- LIX. **Identities and Derivative Formulas for the Combinatorial and Apostol-Euler Type Numbers by Their Generating Functions**  
KÜÇÜKOĞLU İ., ŞİMŞEK Y.  
FILOMAT, vol.32, no.20, pp.6879-6891, 2018 (SCI-Expanded)
- LX. **Computation of k-ary Lyndon Words Using Generating Functions and Their Differential Equations**  
Kucukoglu I., ŞİMŞEK Y.  
FILOMAT, vol.32, no.10, pp.3455-3463, 2018 (SCI-Expanded)
- LXI. **Identities associated with Milne-Thomson type polynomials and special numbers**  
ŞİMŞEK Y., Cakic N.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2018, 2018 (SCI-Expanded)
- LXII. **Combinatorial Identities and Sums for Special Numbers and Polynomials**  
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- CLXXXVII. **Genocchi polynomials associated with the Umbral algebra**  
DERE R., ŞİMŞEK Y.  
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- LXXXVIII. **Genocchi polynomials associated with the Umbral algebra**  
DERE R., ŞİMŞEK Y.  
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- CLXXXIX. **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, Turkey, 1 - 04 August 2010
- CXC. **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, Turkey, 1 - 04 August 2010
- CXCI. **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, Canada, 1 - 04 July 2010
- CXCII. **Interpolation Function of Generalized q-Bernstein type polynomials and their application**  
ŞİMŞEK Y.  
Seventh International Conference on Curves and Surfaces, Avignon-France, France, 1 - 04 June 2010
- CXCIII. **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, Iran, 1 - 04 February 2010
- CXCIV. **Symposium on Generating Functions of Special Numbers and Polynomials and their Applications**  
ŞİMŞEK Y.  
International Conference on Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19 - 25 September 2010, vol.1281, pp.1093
- CXCV. **A Note on Interpolation Functions of the Frobenious-Euler Numbers**  
Cangul I. N., ŞİMŞEK Y.  
2nd International Conference on Application of Mathematics in Technical and Natural Sciences, Sozopol, Bulgaria, 21 - 26 June 2010, vol.1301, pp.59-61
- CXCVI. **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, Greece, 19 - 25 September 2010, vol.1281, pp.1098-1101
- CXCVII. **q-Frobenius-Euler Polynomials Related to the (q-)Bernstein Type Polynomials**  
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International Conference on Numerical Analysis and Applied Mathematics, Rhodes, Greece, 19 - 25 September 2010, vol.1281, pp.1156-1157
- CXCVIII. **Dedekind-type sums, workshop on Dedekind sums in geometry, topology, and arithmetic**  
ŞİMŞEK Y.  
The Banff International Research Station BIRS Scientific Director, Nassif Ghoussoub-Canada, Canada, 1 - 04 October 2009
- CXCIX. **A p-adic Look at the Diophantine Equation  $x^2+112k = yn$**

Cangül İ. N., Soydan G., ŞİMŞEK Y.

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- CC. **Remarks on Interpolation Function of Higher Order (h, q)-Bernoulli Numbers**  
ŞİMŞEK Y., Aygüneş A. A.  
ICNAAM 2009, 7th International Conference of Numerical Analysis and Applied Mathematics, Crete-Greece, Greece, 1 - 04 September 2009, vol.1168, no.1168, pp.61
- CCI. **On Dedekind type DC-Sum**  
ŞİMŞEK Y.  
The 22th International Conference of The Jangjeon Mathematical Society at Adichunchanagiri Institute of Technology Chikmagalur, Karnataka, India, India, 1 - 04 August 2009
- CCII. **p-adic q-L-functions**  
ŞİMŞEK Y.  
The One Day International Workshop on Mathematics and Its Applications to Engineering and Thechnology at S.J.C. Institute of Technology Chikballapur, Karnataka-India, India, 1 - 04 August 2009
- CCIII. **Applications of Hecke Operator to Generalized Dedekind Eta Functions**  
AÇIKGÖZ M., CANGÜL İ. N., Kim D., ŞİMŞEK Y.  
International Conference on Numerical Analysis and Applied Mathematics, Rethimnon, Greece, 18 - 22 September 2009, vol.1168, pp.568-569
- CCIV. **Hurwitz Type Multiple Genocchi Zeta Function**  
ÖZDEN AYNA H., CANGÜL İ. N., ŞİMŞEK Y.  
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- CCV. **Remarks on Interpolation Function of Higher Order (h,q)-Bernoulli Numbers**  
Aygunes A. A., ŞİMŞEK Y.  
International Conference on Numerical Analysis and Applied Mathematics, Rethimnon, Greece, 18 - 22 September 2009, vol.1168, pp.61-64
- CCVI. **A p-adic Look at the Diophantine Equation  $x(2)+11(2k) = yn$**   
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International Conference on Numerical Analysis and Applied Mathematics, Rethimnon, Greece, 18 - 22 September 2009, vol.1168, pp.275-276
- CCVII. **p-adic Dedekind and Hardy-Berndt sums related to Volkenborn integral on  $Z_p$**   
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The 20th International Conference of The Jangjeon Mathematical Society at Uludag University, Bursa-Turkey, Turkey, 1 - 04 August 2008
- CCIX. **The 16th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, Dongguk University, Gyeongju, S. Korea**  
ŞİMŞEK Y.  
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- CCX. **q-Hardy-Berndt type sums associated with q-Genocchi type zeta and q-l-functions**  
ŞİMŞEK Y.  
World Congress of Nonlinear Analysts The International Federation of Nonlinear Analysts (IFNA) WCNA-2008 Hyatt Grand Cypress Resort, Orlando- USA, United States Of America, 1 - 04 July 2008
- CCXI. **Twisted p-adic L-function**  
ŞİMŞEK Y.  
Workshop on Modular Forms and Their Applications, Institute for Mathematical Science, Daejeon-S. Korea, South Korea, 1 - 04 July 2008

- CCXII. **On generating functions of the Bernoulli polynomials with applications**  
 ŞİMŞEK Y.  
 The Workshop on Mathematical Methods in Applied Sciences is organized by Uludag University, Bursa-Turkey, Turkey, 1 - 04 May 2008
- CCXIII. **Multiple Interpolation Functions of Higher Order (h, q)-Bernoulli Numbers**  
 Simsek Y.  
 International Conference on Numerical Analysis and Applied Mathematics, Psalidi, Greece, 16 - 20 September 2008, vol.1048, pp.486-489
- CCXIV. **p-adic q-L-functions**  
 ŞİMŞEK Y.  
 ICTAMI- International Conference on Theory and Applications in Mathematics and Informatics, Alba Iulia, Romania, Romania, 1 - 04 September 2007
- CCXV. **Elliptic analogue of the Hardy sums related to elliptic Bernoulli functions**  
 ŞİMŞEK Y.  
 International Symposium on Complex Function Theory" organized by "Lucian Blaga" University of Sibiu, Romania, Romania, 1 - 04 August 2007
- CCXVI. **On generating functions of q-Euler numbers and Polynomials**  
 ŞİMŞEK Y.  
 International Symposium on Geometric Function Theory and application, Kultur University, Istanbul, Turkey, Turkey, 1 - 04 August 2007
- CCXVII. **Remarks on q-Barnes's multiple zeta function and q-Barnes multiple Bernoulli polynomials**  
 ŞİMŞEK Y.  
 The 19th International Conference of The Jangjeon Mathematical Society at Department of Mathematics, Bangalore University, India, 1 - 04 February 2007
- CCXVIII. **On twisted q-Bernoulli Numbers and twisted q-L-functions**  
 ŞİMŞEK Y.  
 On the 17th International Conference of the Jangjeon Mathematical Society,, Daegu, South Korea, South Korea, 1 - 04 July 2006
- CCXIX. **Generating function of the twisted q-Bernoulli polynomials and numbers related to their interpolation functions**  
 ŞİMŞEK Y.  
 The 17th International Conference of The Jangjeon Mathematical Society" at Department of Mathematics, Kyungpook National University, South Korea, 1 - 04 July 2006
- CCXX. **Remarks on reciprocity laws of the Dedekind and Hardy sums**  
 ŞİMŞEK Y.  
 Proceedings of the 16th International Conference of the Jangjeon Mathematical Society, South Korea, 1 - 04 August 2005, vol.-, pp.148-158
- CCXXI. **International Workshop on Analysis and Its Application, Mersin- Turkey.**  
 ŞİMŞEK Y.  
 On relations between q-Dirichlet L functions, q-Hurwitz zeta function and q-Dedekind sums, Turkey, 1 - 04 September 2004
- CCXXII. **Proceedings of The 15th International Conference of the Jangjeon Mathematical Society, (Hapcheon-Dong, South Korea)**  
 ŞİMŞEK Y.  
 On Generalized q-Hardy Character Sums, South Korea, 1 - 04 August 2004, pp.7-23
- CCXXIII. **The Proceedings of the 14th International Conference of the Jangjeon Mathematical Society, Mysore-India**  
 ŞİMŞEK Y.  
 On normalized Eisenstein series and new theta functions, India, 1 - 04 December 2003
- CCXXIV. **International Mathematical Conference VI.th Bogolubov Readings, Kiev-Ukrania**  
 ŞİMŞEK Y.



- Theorems on Weierstrass  $P(z)$  Function Hardy sums and Eisenstein series, Ukraine, 1 - 04 August 2003, pp.300
- CCXXV. **On p-adic Hardy sums**  
Çetinkaya Y., ŞİMŞEK Y.  
XV. Ulusal Matematik Sempozyumu, Mersin, Turkey, 1 - 04 December 2002, vol.-, pp.105-112
- CCXXVI. **Bernoulli sayıları**  
ŞİMŞEK Y.  
XIV. Ulusal Matematik Sempozyumu 2001, Eskişehir, Turkey, 1 - 04 September 2001, pp.1-0
- CCXXVII. **Dedekind Toplamları**  
ŞİMŞEK Y.  
XI. Ulusal Matematik Sempozyumu, Isparta, Turkey, 1 - 04 September 1998, pp.1-0
- CCXXVIII. **Weierstrass p-fonksiyonu**  
Taşkın C., ŞİMŞEK Y.  
X. Ulusal Matematik Sempozyumu 1997, Bolu, Turkey, 1 - 04 September 1997, pp.1-0
- CCXXIX. ....  
ŞİMŞEK Y.  
XIII. Ulusal Matematik Sempozyumu, Adana, Turkey, 1 - 04 September 1995, pp.1-0
- CCXXX. **Theta fonksiyonlarını logaritmik dönüşümleri**  
ŞİMŞEK Y.  
IV. Ulusal Matematik Sempozyumu, Hatay, Turkey, 1 - 04 September 1991, pp.1-0
- CCXXXI. **Hermityen Matris Eşitsizlikleri**  
ŞİMŞEK Y.  
III. Ulusal Matematik Sempozyumu, Van, Turkey, 1 - 04 August 1990, pp.1-0

## Supported Projects

ALKAN M., ŞİMŞEK Y., Project Supported by Higher Education Institutions, Yayın Süreklilik (YSD)2012-2017, 2017 - 2019  
ALKAN M., ŞİMŞEK Y., Project Supported by Higher Education Institutions, Grup Halkaları Üzerindeki Bazı Modüllerin Grup ile Olan İlişkileri, 2017 - 2019

## Activities in Scientific Journals

Montes Taurus Journal of Pure and Applied Mathematics; SSN: 2687-4814, First Editor, 2019 - Continues  
Publications de l'Institut Mathématique, Editor, 2018 - Continues  
Mathematical Methods in the Applied Sciences - Wiley , Editor, 2017 - Continues  
ADVANCED STUDIES IN CONTEMPORARY MATHEMATICS ISSN 2508-7908, Editor, 2016 - Continues  
FILOMAT, Editor, 2015 - Continues  
Journal of Inequalities and Special Functions ISSN 2217-4303, Editor, 2015 - Continues  
IST Transactions of Computer Vision Systems-Theory and Applications, Editor, 2008 - Continues  
IST Transactions of Applied Mathematics-Modeling and Simulation , Editor, 2008 - Continues  
Journal of Inequalities and Application, Editor, 2016 - 2021  
Selcuk Journal of Applied Mathematics , Editor, 2010 - 2017  
The Scientific World Journal (Mathematical Analysis), Editor, 2012 - 2015  
British Journal of Mathematics & Computer Scienc, Editor, 2011 - 2015  
ISRN Combinatorics , Editor, 2010 - 2014  
Current Computer Science , Editor, 2008 - 2014  
Advances in Difference Equations, Special Issue Editor, 2013 - 2013  
International Journal of Mathematics and Mathematical Sciences, Special Issue Editor, 2011 - 2011

## Memberships / Tasks in Scientific Organizations

Türk Matematiği Derneği, Member, 2012 - Continues

## Scientific Refereeing

Journal of Number Theory, SCI Journal, December 2015  
Bulletin of the Korean Mathematical Society, SCI Journal, November 2015  
FILOMAT, SCI Journal, October 2015  
FIKOMAT, SCI Journal, September 2015  
FILOMAT, SCI Journal, September 2015  
FILOMAT, SCI Journal, July 2015  
Open Mathematics, SCI Journal, June 2015  
Open Mathematics, SCI Journal, June 2015  
The IEEE Systems, Man, and Cybernetics Society (SMCS) , SCI Journal, June 2015  
Bulletin of the Korean Mathematical Society , SCI Journal, June 2015  
British Journal of Mathematics & Computer Science , Other Indexed Journal, May 2015  
Allahabad Mathematical Society (A.M.S.), Other Indexed Journal, April 2015  
Journal of Inequalities and Special Functions , SCI Journal, April 2015  
Asian Journal of Mathematics and Computer Research, Other Indexed Journal, January 2015  
Journal of Inequalities and Applications , SCI Journal, January 2015  
Asian Journal of Mathematics and Computer Research, Other Indexed Journal, January 2015  
Asian Journal of Mathematics and Computer Research, Other Indexed Journal, January 2015  
Palestine Journal of Mathematics, Other Indexed Journal, December 2014  
Applied Mathematics and Computation, SCI Journal, November 2014  
International Journal of Mathematics and Mathematical Sciences , Other Indexed Journal, November 2014  
Journal: Journal of Inequalities and Applications, SCI Journal, October 2014  
Abstract and Applied Analysis , SCI Journal, September 2014  
Applied Mathematics and Computation, SCI Journal, September 2014  
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Central European Journal of Mathematics, SCI Journal, August 2014  
Advances in Applied Clifford Algebras, SCI Journal, July 2014  
Applied Mathematics and Computation, SCI Journal, May 2014  
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Advances in Difference Equations, SCI Journal, April 2014  
Journal of the Korean Mathematical Society, SCI Journal, March 2014  
Journal of Number Theory, SCI Journal, February 2014  
Allahabad Mathematical Society , Other Indexed Journal, February 2014  
Journal of the Association of Arab Universities for Basic and Applied Sciences, SCI Journal, February 2014  
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Indian Journal of Pure and Applied Mathematics, SCI Journal, February 2014  
Journal of Inequalities and Applications, SCI Journal, February 2014  
Applied Mathematics and Computation, Journal Indexed in SSCI, February 2014  
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Mathematical Methods in the Applied Sciences, SCI Journal, November 2013  
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Journal of Number Theory, SCI Journal, October 2013  
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International Journal of Mathematical Analysis, Other Indexed Journal, October 2013  
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Allahabad Mathematical Society , Other Indexed Journal, December 2012  
Journal of Inequalities and Applications , SCI Journal, November 2012  
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ISRN Combinatorics , Other Indexed Journal, November 2012  
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Taiwanese Journal of Mathematics, SCI Journal, November 2012  
Journal of Applied Mathematics , SCI Journal, November 2012  
Discrete Dynamics in Nature and Society , SCI Journal, November 2012  
International Journal of Physical Sciences , Other Indexed Journal, November 2012  
Mathematical Methods in the Applied Sciences, SCI Journal, November 2012  
ISRN Combinatorics , Other Indexed Journal, October 2012  
Taiwanese Journal of Mathematics, SCI Journal, October 2012  
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Applied Mathematics and Computation, SCI Journal, August 2012  
Discrete Dynamics in Nature and Society , SCI Journal, August 2012  
FILOMAT, SCI Journal, August 2012  
Journal of Number Theory, SCI Journal, August 2012  
Advanced Studies in Contemporary Mathematics, Other Indexed Journal, July 2012  
Applied Mathematics and Computation, SCI Journal, July 2012  
International Journal of Mathematics and Mathematical , Other Indexed Journal, July 2012  
Proceedings of the Jangjeon Mathematical Society, Other Indexed Journal, June 2012  
Applied Mathematics and Computation, SCI Journal, June 2012  
Applied Mathematics and Computation, SCI Journal, June 2012  
ISRN Mathematical Analysis , SCI Journal, June 2012  
Abstract and Applied Analysis , SCI Journal, May 2012  
Journal of Number Theory, SCI Journal, May 2012  
Acta Mathematica Sinica, SCI Journal, May 2012  
ISRN Combinatorics , Other Indexed Journal, May 2012  
Discrete Dynamics in Nature and Society, SCI Journal, May 2012  
Discrete Dynamics in Nature and Society , SCI Journal, May 2012  
ISRN Combinatorics , Other Indexed Journal, April 2012  
Advances in Difference Equations, SCI Journal, March 2012  
Abstract and Applied Analysis , SCI Journal, March 2012  
Journal of Integer Sequences, SCI Journal, February 2012  
Abstract and Applied Analysis , SCI Journal, February 2012  
Advances in Difference Equations, SCI Journal, February 2012  
Selçuk Journal of Applied Mathematics , National Scientific Refreed Journal, February 2012  
Journal of Applied Mathematics and Informatics, SCI Journal, February 2012  
Rocky Mountain Journal of Mathematics, SCI Journal, June 2010  
African Journal of Mathematics and Computer Science Research , Other Indexed Journal, December 2009

Journal of Mathematical Analysis and Applications, SCI Journal, April 2006

Acta Arithmetica, SCI Journal, September 2004

## Scientific Consultations

Mathematical Reviews, Other, Mersin University, Fen Edebiyat Fakültesi/Matematik, Matematik, Turkey, 2000 - Continues

The Zentralblatt MATH, Other, Mersin University, Fen Edebiyat Fakültesi/Matematik, Matematik, Turkey, 2000 -

Continues

## Scientific Research / Working Group Memberships

Prof. Dr. Abdelmejid Bayad Département de mathématiques, Université d'Evry-Val d'Essonne, France, <http://www.univ-evry.fr/fr/index.html>, 2013 - 2013

Prof. Dr. Abdelmejid Bayad Département de mathématiques, Université d'Evry-Val d'Essonne, France, <http://www.univ-evry.fr/fr/index.html>, 2010 - 2010

Prof. Dr. Taekyun Kim and Prof. Dr. Seog-Hoon Rim (Kyungpook National University), Kongju National University, South Korea, <http://www.kongju.ac.kr/index.jsp>, 2004 - 2004

## Metrics

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## Congress and Symposium Activities

The 2nd Mediterranean International Conference of Pure&Applied Mathematics and Related Areas (MICOPAM 2020), Moderator, Antalya, Turkey, 2020

15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2017), Thessaloniki, GREECE, 25-30 September 2017, Attendee, Thessaloniki, Greece, 2017

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

The 17th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2017, Rota-Cadiz, SPAIN, 4-8 July 2017, vol.1-6, no.CMMSE2017, Attendee, Cádiz, Spain, 2017

The 30th International Conference of The Jangjeon Mathematical Society" (ICJMS2017) ISBN:978-9931-9222-1-6, Algiers, ALGERIA, 12-15 July 2017, Attendee, Al-Jazâ'ir, Algeria, 2017

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017 ), AYDIN, TURKEY, 11-15 May 2017, Attendee, Aydm, Turkey, 2017

International Conference On Mathematics And Engineering 2017, İstanbul, Turkey, 10-12 May 2017, Attendee, İstanbul, Turkey, 2017

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

the 29th International Conference of "The Jangjeon Mathematical Society on Number Theory and Special Functions and its Applications" 08-10 August 2016, Pondicherry University, Pondicherry, INDIA, Attendee, Pondicherry, India, 2016

Operator", International Conference on Analysis and Its Applications (ICAA-2016) , KIRŞEHİR, TURKEY, 12-15 Temmuz 2016, Attendee, Kırşehir, Turkey, 2016

The 14th International Conference on Permutation Patterns (PP 2016, Washington DC, USA, 27 Haziran - 1 Temmuz

2016, Attendee, Washington, United States Of America, 2016

CIMPA Research School on "Number Theory and Applications, Tipaza, ALGERIA, 29 Mayis - 2 Haziran 2016, Attendee, Tibissah, Algeria, 2016

The 23rd International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, 24-28 August 2015 Kyushu Sangyo University, Fukuoka, JAPAN, Attendee, Fukuoka, Japan, 2015

The 12th International Conference on Finite Fields and Their Applications 13-17 July 2015 Skidmore College Saratoga Springs NY USA., Attendee, New York, United States Of America, 2015

29th Journées Arithmétiques 06-10 July 2015 Debrecen-HUNGARY, Attendee, Debrecen, Hungary, 2015

The 28th International Conference of The Jangjeon Mathematical Society, Attendee, Antalya, Turkey, 2015

International Conference on Diophantine Analysis and Related Topics, Wuhan, CHINA, 10-13 Mart 2016., Attendee, Wuhan, China, 2015

9th International Statistics day Symposium 2014, Attendee, Side-Antalya, Turkey, 2014

Diophantine Analysis and Related Fields 2014, Attendee, Tsukuba , Japan, 2014

26. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Diyarbakır, Turkey, 2013

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

Special Polynomials and their applications/IDENTITIES FOR SOME SPECIAL POLYNOMIALS, Attendee, Mysore, India, 2013

28th Journées Arithmétiques/Remarks On Eulerian Polynomials and Numbers, Attendee, Grenobel, France, 2013

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

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

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

Great Plains Operator Theory Symposium/PDEs related to generating functions for Bernstein polynomials, Attendee, BERKELEY, United States Of America, 2013

2013 AAPT Winter Meeting/p-adic q-integral and some family of L-functions and their applications, Attendee, New Orleans, United States Of America, 2013

34. Turkish National Ear, Nose and Throat and Head Surgery, Attendee, Antalya, Turkey, 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, Attendee, Kos, Greece, 2012

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

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

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

International Conference of the Jangjeon Mathematical Society (ICJMS 2012)/i) Remarks on Hecke type operators, ii) Applications of Umbral Algebra to Some Special Polynomials, Attendee, Seoul, South Korea, 2012

9th International Conference on Mathematical Problems in Engineering/Generating Functions for special polynomials and their applications, Attendee, Viyana, Austria, 2012

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

International Workshop on number Theory related to Generating functions and their Arithmetic/Generating functions

for classes of the special polynomials and numbers, Attendee, Paris, France, 2011

XXIV. National Matematik symposium,, Attendee, Bursa, Turkey, 2011

8th International Conference of Numerical Analysis and Applied Mathematics ICNAAM2010, Attendee, Hilikidiki, Greece, 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), Attendee, Konya, Turkey, 2011

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

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

Arctic Number Theory School/Unification of the Bernoulli, Euler and Genocchi numbers and polynomials related to the family of zeta functions, Attendee, Helsinki, Finland, 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. Loksha, ii) Hecke Operators Related to the Generalized Dedekind Eta Functions and Applications, with A. Ahmet Aygunes, Attendee, Rhodes, Greece, 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, Attendee, Bursa, Turkey, 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, Attendee, Wolfville, Nova Scotia , Canada, 2010

Seventh International Conference on Curves and Surfaces/Interpolation Function of Generalized q-Bernstein type polynomials and their application, Attendee, Avignon, France, 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, Attendee, Ahvaz, Iran, 2010

The Banff International Research Station BIRS Scientific Director/Dedekind-type sums, workshop on Dedekind sums in geometry, topology, and arithmetic, Attendee, Nassif Ghousoub, Turkey, 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, Attendee, Crete, Greece, 2009

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

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

Workshop on p-adic Fourier Analysis, Attendee, Seoul, South Korea, 2008

The 20th International Conference of The Jangjeon Mathematical Society” at Uludag University/On p-adic q-Dedekind type sums, Attendee, Bursa, Turkey, 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  $\mathbb{Z}_p$ , Attendee, Gyeongju, South Korea, 2008

Institute for Mathematical Science/Twisted p-adic L-function, Worksop on Modular Forms and Their Applications, Attendee, Daejeon, South Korea, 2008

The International Federation of Nonlinear Analysts (IFNA) WCNA/q-Hardy-Berndt type sums associated with q-Genocchi type zeta and q-l-functions, Attendee, Orlando, United States Of America, 2008

The Workshop on Mathematical Methods in Applied Sciences/On generating functions of the Bernoulli polynomials with

applications, Attendee, Bursa, Turkey, 2008

ICTAMI- International Conference on Theory and Applications in Mathematics and Informatics/p-adic q-L-functions, Attendee, Alba Iulia, Romania, 2007

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

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

Workshop on p-adic analysis and its applications, Attendee, Taegu, South Korea, 2007

The 19th International Conference of The Jangjeon Mathematical Society/Remarks on q-Barnes's multiple zeta function and q-Barnes multiple Bernoulli polynomials, Attendee, Bangalore, India, 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, Attendee, Taegu, South Korea, 2006

On the 17th International Conference of the Jangjeon Mathematical Society/On twisted q-Bernoulli Numbers and twisted q-L-functions, Attendee, Daegu, South Korea, 2006

International Sempodium 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, Attendee, Victoria, Canada, 2005

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

2005 Algebraic Geometry-Number Theory Camp, KAIST, Attendee, Daejeon, South Korea, 2005

Workshop on p-adic q- Special Functions and their applications, Attendee, Taegu, Turkey, 2005

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

Proceedings of The 15th International Conference of the Jangjeon Mathematical Society/On Generalized q-Hardy Character Sums, Attendee, Hapcheon-Dong, South Korea, 2004

The Proceedings of the 14th International Conference of the Jangjeon Mathematical Society/On normalized Eisenstein series and new theta functions,, Attendee, Mysore, India, 2003

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

XV. National Matematik symposium, Attendee, Mersin, Turkey, 2002

XIV. National Matematik symposium, Attendee, Eskişehir, Turkey, 2001

XI. National Matematik symposium, Attendee, Isparta, Turkey, 1998

X. National Matematik symposium, Attendee, Bolu, Turkey, 1997

XIII. National Matematik symposium,, Attendee, Adana, Turkey, 1995

IV. National Matematik symposium, Attendee, Hatay, Turkey, 1991

III. National Matematik symposium, Attendee, Van, Turkey, 1990

## Awards

Şimşek Y., AKDENİZ ÜNİVERSİTESİ BİLİM ÖDÜLÜ (Temel ve Mühendislik Bilimleri Alanında), Akdeniz Üniversitesi, December 2011