

## **Prof.Dr. FERRUH ÖZBUDAK**

### **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

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Publons / Web Of Science ResearcherID: AAZ-6893-2020

ScopusID: 6603589033

Yoksis Araştırmacı ID: 2212

### **Eğitim Bilgileri**

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 1995 - 1997

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 1993 - 1995

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1988 - 1993

### **Yabancı Diller**

İngilizce, C1 İleri

### **Yaptığı Tezler**

Doktora, Character sums, algebraic function fields, curves with many rational points and geometric Goppa codes, Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1997

Yüksek Lisans, On lower bounds of character sums, Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1995

### **Araştırma Alanları**

Matematik, Cebirsel Geometri, Cisim Kuramı ve Polinomlar, Genel Cebirsel Sistemler, Kombinatorik, Sayılar Kuramı, Temel Bilimler

### **Akademik İdari Deneyim**

Orta Doğu Teknik Üniversitesi, Uygulamalı Matematik Enstitüsü, Kriptografi Anabilim Dalı, 2007 - Devam Ediyor

### **Yönetilen Tezler**

ÖZBUDAK F., Studies on almost perfect nonlinear functions, Yüksek Lisans, G.BATMAZ(Öğrenci), 2022

ÖZBUDAK F., Some studies on CCZ-equivalence of the inverse function, Yüksek Lisans, M.FİDAN(Öğrenci), 2021

- ÖZBUDAK F., Studies on implementation of some mrd codes, Yüksek Lisans, R.ÖZKERİM(Öğrenci), 2021
- ÖZBUDAK F., Some studies on c-differential uniformity of the swapped inverse function, Yüksek Lisans, B.ÜNVER(Öğrenci), 2021
- ÖZBUDAK F., Dizilerin korelasyonu ve kuadratik formlar, Yüksek Lisans, C.Genişel(Öğrenci), 2017
- ÖZBUDAK F., Sonlu cisimler ve sonlu tam sayı halkaları modulo pm üzerinde düzenli, zayıfça düzenli ve zayıfça olmayan düzenli büyük fonksiyonların üretilmesi üzerine, Doktora, D.Celik(Öğrenci), 2014
- ÖZBUDAK F., Keyfi bir grup üzerindeki bent fonksiyonları ile PN fonksiyonları, Yüksek Lisans, E.Sercan(Öğrenci), 2012
- ÖZBUDAK F., Sonlu cisimler üzerinde bir çok rasyonel noktası olan Drinfeld modüler eğrileri, Doktora, V.Cam(Öğrenci), 2011
- ÖZBUDAK F., Periyodik dizilerin beklenen doğrusal karmaşıklık değeri, Yüksek Lisans, Ç.Ozakin(Öğrenci), 2004

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

- I. **On subfield subcodes obtained from restricted evaluation codes**  
Güneri C., ÖZBUDAK F., Sayıcı S.  
Designs, Codes, and Cryptography, cilt.92, sa.3, ss.667-680, 2024 (SCI-Expanded)
- II. **Further constructions and characterizations of generalized almost perfect nonlinear functions**  
Sălăgean A., ÖZBUDAK F.  
Cryptography and Communications, cilt.15, sa.6, ss.1117-1127, 2023 (SCI-Expanded)
- III. **Quasi-Cyclic Perfect Codes in Doob Graphs and Special Partitions of Galois Rings**  
Shi M., Li X., Krotov D. S., ÖZBUDAK F.  
IEEE Transactions on Information Theory, cilt.69, sa.9, ss.5597-5603, 2023 (SCI-Expanded)
- IV. **Complete characterization of some permutation polynomials of the form  $xr(1+axs_1(q-1)+bxs_2(q-1))$  over  $\mathbb{F}_{q^2}$**   
ÖZBUDAK F., Temür B. G.  
Cryptography and Communications, cilt.15, sa.4, ss.775-793, 2023 (SCI-Expanded)
- V. **Optimal Binary Linear Complementary Pairs of Codes**  
Choi W., GÜNERİ C., Kim J., ÖZBUDAK F.  
CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.15, sa.2, ss.469-486, 2023 (SCI-Expanded)
- VI. **Classification of some quadrinomials over finite fields of odd characteristic**  
Özbudak F., Gulmez Temur B. o. T.  
FINITE FIELDS AND THEIR APPLICATIONS, cilt.87, ss.102158, 2023 (SCI-Expanded)
- VII. **On diamond products ensuring irreducibility of the associated composed product**  
İrimağzı C., ÖZBUDAK F.  
Communications in Algebra, cilt.51, sa.7, ss.3134-3142, 2023 (SCI-Expanded)
- VIII. **EUCLIDEAN POLYNOMIALS FOR CERTAIN ARITHMETIC PROGRESSIONS AND THE MULTIPLICATIVE GROUP OF  $\mathbb{F}_{p^2}$**   
Berktav K. I., ÖZBUDAK F.  
QUAESTIONES MATHEMATICAE, cilt.46, sa.7, ss.1283-1292, 2023 (SCI-Expanded)
- IX. **Boomerang uniformity of power permutations and algebraic curves over  $\mathbb{F}_{2^n}$**   
Mesnager S., ÖZBUDAK F.  
Advances in Geometry, cilt.23, sa.1, ss.107-134, 2023 (SCI-Expanded)
- X. **The c-differential uniformity of the perturbed inverse function via a trace function  $\text{Tr}(x^2x+1)$**   
KAYTANCI K., ÖZBUDAK F.  
Periodica Mathematica Hungarica, 2023 (SCI-Expanded)
- XI. **Imprimitive symmetric association schemes of classes 5 and 6 arising from ternary non-weakly regular bent functions**  
ÖZBUDAK F., Pelen R. M.  
JOURNAL OF ALGEBRAIC COMBINATORICS, cilt.56, sa.3, ss.635-658, 2022 (SCI-Expanded)

- XII. Additive cyclic complementary dual codes over F<sub>4</sub>**  
 Shi M., Liu N., ÖZBUDAK F., Solé P.  
*Finite Fields and their Applications*, cilt.83, 2022 (SCI-Expanded)
- XIII. Classification of permutation polynomials of the form  $x^3g(x^{q-1})$  of  $\mathbb{F}_{q^2}$  where  $g(x) = x^3 + bx + c$  and  $b, c \in \mathbb{F}_q$ \***  
 ÖZBUDAK F., Gülmek Temür B.  
*Designs, Codes, and Cryptography*, cilt.90, sa.7, ss.1537-1556, 2022 (SCI-Expanded)
- XIV. Construction of self dual codes from graphs**  
 Fellah N., Guenda K., ÖZBUDAK F., Seneviratne P.  
*APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING*, 2022 (SCI-Expanded)
- XV. Factorization of some polynomials over finite local commutative rings and applications to certain self-dual and LCD codes**  
 Koese S., ÖZBUDAK F.  
*CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES*, cilt.14, sa.4, ss.933-948, 2022 (SCI-Expanded)
- XVI. Covering Radius of Melas Codes**  
 Shi M., Helleseth T., Özbudak F., Sole P.  
*IEEE Transactions on Information Theory*, cilt.68, sa.7, ss.4354-4364, 2022 (SCI-Expanded)
- XVII. Two or Three Weight Linear Codes from Non-Weakly Regular Bent Functions**  
 Özbudak F., Pelen R. M.  
*IEEE Transactions on Information Theory*, cilt.68, sa.5, ss.3014-3027, 2022 (SCI-Expanded)
- XVIII. Complete b-symbol weight distribution of some irreducible cyclic codes**  
 Zhu H., Shi M., ÖZBUDAK F.  
*DESIGNS CODES AND CRYPTOGRAPHY*, cilt.90, sa.5, ss.1113-1125, 2022 (SCI-Expanded)
- XIX. New constructions of entanglement-assisted quantum codes**  
 Allahmadi A., AlKenani A., Hijazi R., Muthana N., ÖZBUDAK F., Solé P.  
*Cryptography and Communications*, cilt.14, sa.1, ss.15-37, 2022 (SCI-Expanded)
- XX. LCD codes from tridiagonal Toeplitz matrices**  
 Shi M., ÖZBUDAK F., Xu L., Solé P.  
*Finite Fields and their Applications*, cilt.75, 2021 (SCI-Expanded)
- XXI. CORRELATION DISTRIBUTION OF A SEQUENCE FAMILY GENERALIZING SOME SEQUENCES OF TRACHTENBERG**  
 ÖZBUDAK F., Tekin E.  
*ADVANCES IN MATHEMATICS OF COMMUNICATIONS*, cilt.15, sa.4, ss.647-662, 2021 (SCI-Expanded)
- XXII. Geometric Approach to b-Symbol Hamming Weights of Cyclic Codes**  
 Shi M., Özbudak F., Sole P.  
*IEEE Transactions on Information Theory*, cilt.67, sa.6, ss.3735-3751, 2021 (SCI-Expanded)
- XXIII. New generalized almost perfect nonlinear functions**  
 ÖZBUDAK F., Salagean A.  
*FINITE FIELDS AND THEIR APPLICATIONS*, cilt.70, 2021 (SCI-Expanded)
- XXIV. On the Parity of Power Permutations**  
 Comak P., ÖZBUDAK F.  
*IEEE Access*, cilt.9, ss.106806-106812, 2021 (SCI-Expanded)
- XXV. Hermitian Rank Metric Codes and Duality**  
 La Cruz J. D., Evilla J. R., ÖZBUDAK F.  
*IEEE ACCESS*, cilt.9, ss.38479-38487, 2021 (SCI-Expanded)
- XXVI. Secondary constructions of (non)weakly regular plateaued functions over finite fields**  
 Mesnager S., ÖZBUDAK F., Sinak A.  
*TURKISH JOURNAL OF MATHEMATICS*, cilt.45, ss.2295-2306, 2021 (SCI-Expanded)
- XXVII. Counting Boolean functions with faster points**  
 Salagean A., ÖZBUDAK F.

- DESIGNS CODES AND CRYPTOGRAPHY, cilt.88, sa.9, ss.1867-1883, 2020 (SCI-Expanded)
- XXVIII. Subspace packings: constructions and bounds**  
 Etzion T., Kurz S., Otal K., ÖZBUDAK F.  
 DESIGNS CODES AND CRYPTOGRAPHY, cilt.88, sa.9, ss.1781-1810, 2020 (SCI-Expanded)
- XXIX. Duals of non-weakly regular bent functions are not weakly regular and generalization to plateaued functions**  
 ÖZBUDAK F., PELEN R. M.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.64, 2020 (SCI-Expanded)
- XXX. Strongly regular graphs arising from non-weakly regular bent functions**  
 ÖZBUDAK F., PELEN R. M.  
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.11, sa.6, ss.1297-1306, 2019 (SCI-Expanded)
- XXXI. A concatenated construction of linear complementary pair of codes**  
 GÜNERİ C., ÖZBUDAK F., Sacikara E.  
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.11, sa.5, ss.1103-1114, 2019 (SCI-Expanded)
- XXXII. On q-ary plateaued functions over  $F_q$  and their explicit characterizations**  
 Mesnager S., ÖZBUDAK F., Sinak A., Cohen G.  
 EUROPEAN JOURNAL OF COMBINATORICS, cilt.80, ss.71-81, 2019 (SCI-Expanded)
- XXXIII. Constructing sequences with high nonlinear complexity using the Weierstrass semigroup of a pair of distinct points of a Hermitian curve**  
 Geil O., Ozbudak F., Ruano D.  
 SEMIGROUP FORUM, cilt.98, sa.3, ss.543-555, 2019 (SCI-Expanded)
- XXXIV. On affine variety codes from the Klein quartic**  
 Geil O., ÖZBUDAK F.  
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.11, sa.2, ss.237-257, 2019 (SCI-Expanded)
- XXXV. Linear codes from weakly regular plateaued functions and their secret sharing schemes**  
 Mesnager S., ÖZBUDAK F., Sinak A.  
 DESIGNS CODES AND CRYPTOGRAPHY, cilt.87, ss.463-480, 2019 (SCI-Expanded)
- XXXVI. CYLOTOMIC FUNCTION FIELDS OVER FINITE FIELDS WITH CLASS NUMBER THREE**  
 Bilhan M., Buyruk D., ÖZBUDAK F.  
 JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, cilt.56, sa.2, ss.559-578, 2019 (SCI-Expanded)
- XXXVII. SELF-DUALITY OF GENERALIZED TWISTED GABIDULIN CODES**  
 Otal K., ÖZBUDAK F., Willems W.  
 ADVANCES IN MATHEMATICS OF COMMUNICATIONS, cilt.12, sa.4, ss.707-721, 2018 (SCI-Expanded)
- XXXVIII. On Linear Complementary Pairs of Codes**  
 CARLET C., Guneri C., ÖZBUDAK F., Ozkaya B., SOLE P.  
 IEEE TRANSACTIONS ON INFORMATION THEORY, cilt.64, sa.10, ss.6583-6589, 2018 (SCI-Expanded)
- XXXIX. New cubic self-dual codes of length 54, 60 and 66**  
 Comak P., Kim J. L., Ozbudak F.  
 APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, cilt.29, sa.4, ss.303-312, 2018 (SCI-Expanded)
- XL. On the p-ary (cubic) bent and plateaued (vectorial) functions**  
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 DESIGNS CODES AND CRYPTOGRAPHY, cilt.86, sa.8, ss.1865-1892, 2018 (SCI-Expanded)
- XLI. Additive cyclic codes over finite commutative chain rings**  
 Martinez-Moro E., Otal K., ÖZBUDAK F.  
 DISCRETE MATHEMATICS, cilt.341, sa.7, ss.1873-1884, 2018 (SCI-Expanded)
- XLII. Generalized nonbinary sequences with perfect autocorrelation, flexible alphabets and new periods**  
 BOZTAŞ S., ÖZBUDAK F., TEKİN E.

- CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.10, sa.3, ss.509-517, 2018 (SCI-Expanded)
- XLIII. Explicit Full Correlation Distribution of Sequence Families Using Plateaued Functions**  
 BOZTAŞ S., ÖZBUDAK F., TEKİN E.  
 IEEE TRANSACTIONS ON INFORMATION THEORY, cilt.64, sa.4, ss.2858-2875, 2018 (SCI-Expanded)
- XLIV. Some new non-additive maximum rank distance codes**  
 Otal K., Ozbudak F.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.50, ss.293-303, 2018 (SCI-Expanded)
- XLV. A new concatenated type construction for LCD codes and isometry codes**  
 CARLET C., GUNERI C., ÖZBUDAK F., SOLÉ P.  
 DISCRETE MATHEMATICS, cilt.341, sa.3, ss.830-835, 2018 (SCI-Expanded)
- XLVI. A SUPER-SET OF PATTERSON-WIEDEMANN FUNCTIONS: UPPER BOUNDS AND POSSIBLE NONLINEARITIES**  
 Kavut S., MAITRA S., ÖZBUDAK F.  
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- XLVII. Cyclic subspace codes via subspace polynomials**  
 Otal K., ÖZBUDAK F.  
 DESIGNS CODES AND CRYPTOGRAPHY, cilt.85, sa.2, ss.191-204, 2017 (SCI-Expanded)
- XLVIII. Structure and performance of generalized quasi-cyclic codes**  
 GUNERİ C., ÖZBUDAK F., Ozkaya B., Sacikara E., SEPASDAR Z., SOLÉ P.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.47, ss.183-202, 2017 (SCI-Expanded)
- XLIX. ON COMPLEMENTARY DUAL ADDITIVE CYCLIC CODES**  
 GÜNERİ C., ÖZBUDAK F., Ozdemir F.  
 ADVANCES IN MATHEMATICS OF COMMUNICATIONS, cilt.11, sa.2, ss.353-357, 2017 (SCI-Expanded)
- L. Hasse-Weil bound for additive cyclic codes**  
 GUNERİ C., ÖZBUDAK F., Ozdemir F.  
 DESIGNS CODES AND CRYPTOGRAPHY, cilt.82, ss.249-263, 2017 (SCI-Expanded)
- LI. Additive Rank Metric Codes**  
 OTAL K., ÖZBUDAK F.  
 IEEE TRANSACTIONS ON INFORMATION THEORY, cilt.63, sa.1, ss.164-168, 2017 (SCI-Expanded)
- LII. Explicit maximal and minimal curves over finite fields of odd characteristics**  
 ÖZBUDAK F., SAYGI Z.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.42, ss.81-92, 2016 (SCI-Expanded)
- LIII. A minimum distance bound for quasi-nD-cyclic codes**  
 ÖZBUDAK F., Ozkaya B.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.41, ss.193-222, 2016 (SCI-Expanded)
- LIV. Switchings of semifield multiplications**  
 HOU X., ÖZBUDAK F., ZHOU Y.  
 DESIGNS CODES AND CRYPTOGRAPHY, cilt.80, sa.2, ss.217-239, 2016 (SCI-Expanded)
- LV. EXPLICIT CONSTRUCTIONS OF SOME NON-GABIDULIN LINEAR MAXIMUM RANK DISTANCE CODES**  
 OTAL K., Ozbudak F.  
 ADVANCES IN MATHEMATICS OF COMMUNICATIONS, cilt.10, sa.3, ss.589-600, 2016 (SCI-Expanded)
- LVI. Further results on rational points of the curve  $y(qn) - y = \gamma x^{qh+1} - \alpha$  over  $\mathbb{F}_{qn}$**   
 COSGUN A., ÖZBUDAK F., SAYGI Z.  
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- LVII. FURTHER RESULTS ON FIBRE PRODUCTS OF KUMMER COVERS AND CURVES WITH MANY POINTS OVER FINITE FIELDS**  
 ÖZBUDAK F., TEMUR B. G., YAYLA O.  
 ADVANCES IN MATHEMATICS OF COMMUNICATIONS, cilt.10, sa.1, ss.151-162, 2016 (SCI-Expanded)
- LVIII. Classification of function fields with class number three**  
 BİLHAN M., BUYRUK D., ÖZBUDAK F.

- JOURNAL OF PURE AND APPLIED ALGEBRA, cilt.219, sa.11, ss.5097-5116, 2015 (SCI-Expanded)
- LIX. **A construction of weakly and non-weakly regular bent functions over the ring of integers modulo**  
**ÇELİK D., ÖZBUDAK F.**
- APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, cilt.26, sa.6, ss.543-554, 2015 (SCI-Expanded)
- LX. **On some bounds on the minimum distance of cyclic codes over finite fields**  
ÖZBUDAK F., TUTDERE S., YAYLA O.  
Designs, Codes, and Cryptography, cilt.76, sa.2, ss.173-178, 2015 (SCI-Expanded)
- LXI. **On the exact number of solutions of certain linearized equations**  
ÖZBUDAK F., SAYGI Z.  
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- LXII. **ON THE NUMBER OF QUADRATIC FORMS HAVING CODIMENSION 2 RADICALS IN CHARACTERISTIC 2 GIVING MAXIMAL/MINIMAL CURVES**  
ÖZBUDAK F., SAYGI Z.  
COMMUNICATIONS IN ALGEBRA, cilt.42, sa.9, ss.3795-3810, 2014 (SCI-Expanded)
- LXIII. **Uniqueness of  $F_q$ -quadratic perfect nonlinear maps from  $F_{q^3}$  to  $F_{q^2}$**   
Oezbudak F., POTT A.  
FINITE FIELDS AND THEIR APPLICATIONS, cilt.29, ss.49-88, 2014 (SCI-Expanded)
- LXIV. **Hybrid classes of balanced Boolean functions with good cryptographic properties**  
Khan M. A., ÖZBUDAK F.  
INFORMATION SCIENCES, cilt.273, ss.319-328, 2014 (SCI-Expanded)
- LXV. **On the arithmetic operations over finite fields of characteristic three with low complexity**  
AKLEYLEK S., ÖZBUDAK F., ÖZEL C. S.  
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- LXVI. **Finite number of fibre products of Kummer covers and curves with many points over finite fields**  
ÖZBUDAK F., GÜLMEZ TEMÜR B.  
DESIGNS CODES AND CRYPTOGRAPHY, cilt.70, sa.3, ss.385-404, 2014 (SCI-Expanded)
- LXVII. **Improved probabilistic decoding of interleaved Reed-Solomon codes and folded Hermitian codes**  
ÖZBUDAK F., Yayla O.  
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- LXVIII. **A New Representation of Elements of Binary Fields with Subquadratic Space Complexity Multiplication of Polynomials**  
ÖZBUDAK F., AKLEYLEK S., Cenk M.  
IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES, sa.10, ss.2016-2024, 2013 (SCI-Expanded)
- LXIX. **On the generalisation of special moduli for faster interleaved montgomery modular multiplication**  
AKLEYLEK S., CENK M., ÖZBUDAK F.  
IET INFORMATION SECURITY, cilt.7, sa.3, ss.165-171, 2013 (SCI-Expanded)
- LXX. **The Concatenated Structure of Quasi-Cyclic Codes and an Improvement of Jensen's Bound**  
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IEEE TRANSACTIONS ON INFORMATION THEORY, cilt.59, sa.2, ss.979-985, 2013 (SCI-Expanded)
- LXXI. **An exhaustive computer search for finding new curves with many points among fibre products of two Kummer covers over  $F_5$  and  $F_7$**   
ÖZBUDAK F., GÜLMEZ TEMÜR B., Yayla O.  
TURKISH JOURNAL OF MATHEMATICS, cilt.37, sa.6, ss.908-913, 2013 (SCI-Expanded)
- LXXII. **Polycyclic codes over Galois rings with applications to repeated-root constacyclic codes**  
Lopez-Permouth S. R., Ozadam H., ÖZBUDAK F., SZABO S.  
FINITE FIELDS AND THEIR APPLICATIONS, cilt.19, sa.1, ss.16-38, 2013 (SCI-Expanded)
- LXXIII. **Planarity of products of two linearized polynomials**  
KYUREGHYAN G., ÖZBUDAK F.  
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- LXXIV. **Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics): Preface**  
 ÖZBUDAK F., Rodríguez-Henríquez F.  
 Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2012 (SCI-Expanded)
- LXXV. **On the Polynomial Multiplication in Chebyshev Form**  
 Akleylek S., Cenk M., ÖZBUDAK F.  
 IEEE TRANSACTIONS ON COMPUTERS, cilt.61, sa.4, ss.584-587, 2012 (SCI-Expanded)
- LXXVI. **Quadratic forms of codimension 2 over finite fields containing F-4 and Artin-Schreier type curves**  
 ÖZBUDAK F., SAYGI E., Saygi Z.  
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- LXXVII. **Modified Redundant Representation for Designing Arithmetic Circuits with Small Complexity**  
 AKLEYLEK S., ÖZBUDAK F.  
 IEEE TRANSACTIONS ON COMPUTERS, cilt.61, sa.3, ss.427-432, 2012 (SCI-Expanded)
- LXXVIII. **A new class of quaternary LCZ sequence sets**  
 ÖZBUDAK F., SAYGI E., SAYGI Z.  
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- LXXIX. **A BOUND ON THE MINIMUM DISTANCE OF QUASI-CYCLIC CODES**  
 Gueneri C., Oezbudak F.  
 SIAM JOURNAL ON DISCRETE MATHEMATICS, cilt.26, sa.4, ss.1781-1796, 2012 (SCI-Expanded)
- LXXX. **A relation between quasi-cyclic codes and 2-D cyclic codes**  
 Guneri C., ÖZBUDAK F.  
 FINITE FIELDS AND THEIR APPLICATIONS, cilt.18, sa.1, ss.123-132, 2012 (SCI-Expanded)
- LXXXI. **Quadratic forms of codimension 2 over certain finite fields of even characteristic**  
 ÖZBUDAK F., SAYGI E., Saygi Z.  
 CRYPTOGRAPHY AND COMMUNICATIONS-DISCRETE-STRUCTURES BOOLEAN FUNCTIONS AND SEQUENCES, cilt.3, sa.4, ss.241-257, 2011 (SCI-Expanded)
- LXXXII. **Efficient multiplications in  $F(5)5n$  and  $F(7)7n$**   
 CENK M., ÖZBUDAK F.  
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- LXXXIII. **Multiplication of polynomials modulo  $x(n)$**   
 CENK M., ÖZBUDAK F.  
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- LXXXIV. **APPROXIMATION OF BOUNDS ON MIXED-LEVEL ORTHOGONAL ARRAYS**  
 SEZER A. D., ÖZBUDAK F.  
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- LXXXV. **A class of authentication codes with secrecy**  
 OZBUDAK E. K., ÖZBUDAK F., SAYGI Z.  
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