

Res. Asst. PhD Mustafa SARI

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey 2013 - 2019

Post Graduate, Yıldız Teknik Üniversitesi, Fen-Edebiyat/Matematik, Matematik, Turkey 2011 - 2013

Under Graduate, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik, Turkey 2006 - 2011

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, The Construction of Quantum Maximum Distance Separable Codes from Constacyclic Codes, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, 2019

Post Graduate, Klasik Lineer Kodlardan Kuantum Kod Elde Etme, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 2013

Research Areas

Mathematics, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2020 - Continues

Assistant Professor, Dogus University, Faculty Of Engineering, Department Of Industrial Engineering, 2019 - 2020

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Matematik, 2013 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **New Entanglement-Assisted Quantum MDS Codes with Maximal Entanglement**
SARI M., KÖROĞLU M. E.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.60, no.1, pp.243-253, 2021 (Journal Indexed in SCI)
- II. **Quantum codes from codes over the ring $F_q + \alpha F_q$**
GÜZELTEPE M., SARI M.
QUANTUM INFORMATION PROCESSING, vol.18, no.12, 2019 (Journal Indexed in SCI)
- III. **An application of constacyclic codes to entanglement-assisted quantum MDS codes**

- Sarı M., Kolotoğlu E.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.38, 2019 (Journal Indexed in SCI)
- IV. **On MDS Negacyclic LCD Codes**
Köroğlu M. E. , Sarı M.
FILOMAT, vol.33, pp.1-12, 2019 (Journal Indexed in SCI)
- V. **QUANTUM CODES WITH IMPROVED MINIMUM DISTANCE**
Kolotoğlu E., Sarı M.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, pp.609-619, 2019 (Journal Indexed in SCI)
- VI. **ON QUANTUM CODES FROM CYCLIC CODES OVER A CLASS OF NONCHAIN RINGS**
SARI M., Siap I.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.53, no.6, pp.1617-1628, 2016 (Journal Indexed in SCI)
- VII. **QUANTUM CODES OVER A CLASS OF FINITE CHAIN RINGS**
SARI M., Siap I.
QUANTUM INFORMATION & COMPUTATION, vol.16, pp.39-49, 2016 (Journal Indexed in SCI)
- VIII. **ONE-HOMOGENEOUS WEIGHT CODES OVER FINITE CHAIN RINGS**
SARI M., Siap I., Siap V.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.52, no.6, pp.2011-2023, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **A Different Construction for Some Classes of Quantum MDS Codes**
Sarı M., Kolotoğlu E.
MATHEMATICS IN COMPUTER SCIENCE, vol.14, pp.35-44, 2020 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **New entanglement-assisted quantum mds codes with maximal entanglement**
Köroğlu M. E. , Sarı M.
7th International Congress on Fundamental and Applied Sciences 2020 (ICFAS2020), Priştine, Kosovo, 6 - 08 October 2020, pp.1
- II. **m-adic residue codes over $F_q[v]/(v^s - v)$ and their applications to quantum codes**
Kürüz F., Sarı M., Köroğlu M. E.
7th International Congress on Fundamental and Applied Sciences 2020 (ICFAS2020), Priştine, Kosovo, 6 - 08 October 2020, pp.1
- III. **An application of constacyclic codes to entanglement-assisted quantum codes**
Sarı M., Kolotoğlu E.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.29-30
- IV. **On MDS negacyclic LCD codes**
Sarı M., Köroğlu M. E.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.218
- V. **Negacyclic Hermitian LCD codes**
Köroğlu M. E. , Sarı M.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.362
- VI. **From codes over $F_q + \theta F_q$ to quantum codes**
SARI M., Güzeltepe M., ŞİAP İ.
International Conference on Quantum Science and Applications(ICQSA-2016), Eskişehir, Turkey, 25 May 2016, pp.142
- VII. **Linear codes over a nonchain ring and secret sharing scheme**
Siap İ., Sarı M., Ozbek I., Siap V.

The First International Conference "Mathematics Days in Triana", Tirane, Albania, 11 - 12 December 2015, pp.1-6

VIII. **Quantum Codes from Cyclic Codes over A Class of Nonchain Rings**

Sarı M., Siap I.

6th International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO), İstanbul, Turkey, 27 - 29 May 2015

IX. **Linear codes of constant-weight codes over finite chain rings**

Siap I., Sarı M., Siap V.

V. Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 24 - 27 September 2014, pp.29

X. **Quantum codes over a class of finite chain ring**

Sarı M., Siap I.

3rd Eurasian Conference on Mathematical Science and Applications, Vienna, Austria, 25 - 28 August 2014, pp.294

XI. **One-weight codes over finite chain rings**

Sarı M., Siap I., Siap V.

International Workshop on Discrete Structures, Islamabad, Pakistan, 5 - 07 March 2014

XII. **Type II codes obtained via a chain ring and Quantum codes**

Sarı M., Siap V., Siap İ.

2nd International Eurasian on Mathematical Science and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.35

Scientific Refereeing

QUANTUM INFORMATION PROCESSING, Journal Indexed in SCI-E, May 2020

JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Journal Indexed in SCI-E, March 2020

Sigma Journal of Engineering And Natural Sciences, Journal Indexed in ESCI, September 2019

Edit Congress and Symposium Activities

Kriptoloji ve Cebirsel Kodlama Çalıştayı , Working Group, İstanbul, Turkey, 2015

Citations

Total Citations (WOS):33

h-index (WOS):3