

**EDA YILDIZ
YILMAZ**

ASST. PROF.

Email : edyildiz@yildiz.edu.tr

Office Phone : [+90 212 383
4338](tel:+902123834338)

**International Researcher
IDs**

ScholarID: KIxR4SQAAAAJ

ORCID: 0000-0002-6469-
6698

Publons / Web Of Science

ResearcherID: AAY-5279-
2020

ScopusID: 57201182660

Yoksis Researcher ID: 267163



Learning Knowledge

| | |
|------------------------------|---|
| Doctorate 2017 - 2023 | Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey |
| Postgraduate 2015 - 2017 | Istanbul Technical University, Fen Bilimleri Enstitüsü, Matematik Mühendisliği, Turkey |
| Postgraduate 2015 - 2017 | Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Cebir Ve Sayılar Teorisi, Turkey |
| Undergraduate 2011 - 2015 | Yildiz Technical University, Faculty Of Arts & Science, Matematik, Turkey |
| Undergraduate 2013 - 2014 | Stockholms Universitet (Stockholm University), Mathematics, Mathematics, Sweden |

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Quality Management, "ISO 9001:2015 Kuruluş İçi Kalite Denetçisi", YTÜ, 2018

Education Management and Planning, Pedagojik Formasyon Eğitimi, Yıldız Teknik Üniversitesi, 2014

Dissertations

Doctorate, A Generalization of Zariski Topology, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2023

Postgraduate, Quantum Codes over Eisenstein-Jacobi Integers, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2017

Academic Titles / Tasks

Assistant Professor
2023 - Continues

Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics

Research Assistant PhD
2023 - 2023

Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics

Research Assistant
2017 - 2023

Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics

Scholarships

2211 Doctoral Scholarship, TUBITAK, 2017 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- On the Number of \mathbb{Z}_p -Double Cyclic Codes and Quasi Cyclic Codes**
Abualrub T., Aydoğdu İ., Yıldız E., Khashyarmansh K.
JOURNAL OF ALGEBRA AND ITS APPLICATIONS, vol.23, pp.1-12, 2024 (SCI-Expanded)
- S-VERSIONS AND S-GENERALIZATIONS OF IDEMPOTENTS, PURE IDEALS AND STONE TYPE THEOREMS**
ERSOY B. A., TEKİR Ü., YILDIZ E.
Bulletin of the Korean Mathematical Society, vol.61, no.1, pp.83-92, 2024 (SCI-Expanded)
- Annihilator Condition on Modules**
Mahdou N., Koç S., Yıldız E., Tekir Ü.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY, TRANSACTION A: SCIENCE, vol.47, no.5-6, pp.1713-1721, 2023 (SCI-Expanded)
- On weakly 1-absorbing prime ideals**
Koç S., Tekir Ü., Yıldız E.
RICERCHE DI MATEMATICA, vol.72, no.2, pp.723-738, 2023 (SCI-Expanded)
- On $\phi - (n, N)$ -ideals of Commutative Rings**
Anebri A., Mahdou N., Tekir Ü., Yıldız E.
ALGEBRA COLLOQUIUM, vol.30, no.03, pp.481-492, 2023 (SCI-Expanded)
- On the number of $\mathbb{Z}(2)\mathbb{Z}(4)$ and $\mathbb{Z}(p)\mathbb{Z}(p^2)$ -additive cyclic codes**

YILDIZ E., Abualrub T., AYDOĞDU İ.

APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, vol.34, no.1, pp.81-97, 2023 (SCI-Expanded)

7. **S-Zariski Topology on S-Spectrum of Modules**

Yıldız E., Ersoy B. A., Tekir Ü.

FILOMAT, vol.36, no.20, pp.7103-7112, 2022 (SCI-Expanded)

8. **On weakly 1-absorbing primary submodules**

Yetkin Çelikel E., Koç S., Tekir Ü., Yıldız E.

JOURNAL OF ALGEBRA AND ITS APPLICATIONS, vol.22, no.1, pp.1-17, 2022 (SCI-Expanded)

9. **On S-comultiplication modules**

Yıldız E., Tekir Ü., Koç S.

TURKISH JOURNAL OF MATHEMATICS, vol.46, pp.2034-2046, 2021 (SCI-Expanded)

10. **On S-Zariski topology**

Yıldız E., Ersoy B. A., Tekir Ü., Koç S.

COMMUNICATIONS IN ALGEBRA, vol.49, no.3, pp.1212-1224, 2020 (SCI-Expanded)

11. **(2, J)-IDEALS IN COMMUTATIVE RINGS**

YILDIZ E., TEKİR Ü., KOÇ S.

COMPTE RENDUS DE L ACADEMIE BULGARE DES SCIENCES, vol.73, no.9, pp.1201-1209, 2020 (SCI-Expanded)

Articles Published in Other Journals

1. **On graded strongly quasi primary ideals**

Abdullah R., Abu-Dawwas R., Koç S., Tekir Ü., Yıldız E.

Moroccan Journal of Algebra and Geometry with Applications, vol.1, no.2, pp.409-417, 2022 (Peer-Reviewed Journal)

2. **Graded Weakly 1-absorbing Prime Ideals**

Tekir Ü., Koç S., Abu-Dawwas R., Yıldız E.

Cubo-A Mathematical Journal, vol.24, no.2, pp.1-13, 2022 (ESCI)

3. **On phi-1-absorbing prime ideals**

YILDIZ E., TEKİR Ü., KOÇ S.

BEITRAGE ZUR ALGEBRA UND GEOMETRIE-CONTRIBUTIONS TO ALGEBRA AND GEOMETRY, vol.62, no.4, pp.907-918, 2021 (ESCI)

4. **On graded 1-absorbing prime ideals**

Abu-Dawwas R., YILDIZ E., TEKİR Ü., KOÇ S.

SAO PAULO JOURNAL OF MATHEMATICAL SCIENCES, vol.15, no.1, pp.450-462, 2021 (ESCI)

5. **On Bounds for Quantum Error Correcting Codes over EJ-Integers**

Yıldız E.

Electronic Notes in Discrete Mathematics, vol.70, pp.89-94, 2018 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

1. **A Generalization of Stone Representation Theorem**

Yıldız E., Tekir Ü., Ersoy B. A.

THE INTERNATIONAL CONFERENCE ON ALGEBRA AND ITS APPLICATIONS (ICAA), Fas, Morocco, 11 - 15 July 2023, pp.86

2. **On S-maximal Ideals**

Yıldız E., Ersoy B. A., Tekir Ü.

ICASEM IV. International Congress on Applied Sciences, Engineering and Mathematics, Tekirdağ, Turkey, 20 - 23 October 2022, pp.18

3. **A Topology on S-Spectrum of a Module**
Yıldız E., Ersoy B. A., Tekir Ü.
INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM IGRS'22, İstanbul, Turkey, 1 - 03 June 2022
4. **On Some Properties of $(2, J)$ -Ideals**
Yıldız E., Tekir Ü., Koç S.
Binghamton University Graduate Conference in Algebra and Topology, New York, United States Of America, 7 - 08 November 2020
5. **A Generalization of Zariski Topology**
Yıldız E., Ersoy B. A., Tekir Ü., Koç S.
4th International Conference on Mathematics, İstanbul, Turkey, 27 - 30 October 2020, pp.158
6. **On a new construction of quantum codes from a ring**
Yıldız E.
Young Researchers Forum on Quantum Information Science, Hsinchu, Taiwan, 26 - 28 August 2020
7. **The Dual Notion of S-multiplication Modules**
Yıldız E., Tekir Ü., Koç S.
International Gobeklitepe Congress of Applied Sciences, İstanbul, Turkey, 5 - 07 June 2020, pp.1
8. **On Bounds for Quantum Error Correcting Codes over EJ-Integers**
Yıldız E.
Theoretical and Computational Discrete Mathematics 2018, London, United Kingdom, 14 - 15 September 2018, pp.14
9. **A New Approach to Quantum Error Correcting Codes**
YILDIZ E.
New Trends in Rings and Modules, Kocaeli, Turkey, 20 June 2018, pp.40
10. **Quantum codes over Eisenstein-Jacobi integers**
Yıldız E., Demirkale F.
7th International Conference on Modeling, Simulation, and Applied Optimization, ICMSAO 2017, Sharjah, United Arab Emirates, 4 - 06 April 2017, pp.1-5
11. **A New Class of Quantum Codes**
Yıldız E., Demirkale F.
Antalya Algebra Days 2017, İzmir, Turkey, 17 - 21 May 2017

Other Publications

1. **A Generalization of Zariski Topology**
Yıldız E.
Other, pp.1-90, 2023
2. **Quantum Codes over Eisenstein-Jacobi Integers, M.Sc. Thesis**
Yıldız E.
Other, pp.1-97, 2017

Academic and Administrative Experience

| | | |
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| 2023 - Continues | Birim Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi | Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics |
| 2021 - Continues | Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi | Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics |

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|------------------|-------------------------------------|---|
| 2020 - Continues | Member of Department | Yildiz Technical University, Faculty Of Arts & Science, Department Of |
| | FEDEK Commission | Mathematics |
| 2018 - Continues | Bölüm Kalite Komisyonu Üyesi | Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics |

Activities in Scientific Journals

Eurasian Bulletin of Mathematics, Assistant Editor/Section Editor, 2021 - Continues

Scientific Refereeing

ADVANCES IN MATHEMATICS OF COMMUNICATIONS, SCI Journal, May 2024

JOURNAL OF ALGEBRA AND ITS APPLICATIONS, SCI Journal, January 2024

ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA DIN IASI - MATEMATICA, Other journals, July 2023

FILOMAT, Journal Indexed in SCI-E, February 2021

Jordan Journal of Mathematics and Statistics, Journal Indexed in ESCI, January 2021

Jordan Journal of Mathematics and Statistics , Journal Indexed in ESCI, October 2020

Metrics

Publication: 29

Citation (WoS): 41

Citation (Scopus): 50

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

QWomen Istanbul Workshop, Invited Speaker, İstanbul, Turkey, 2020

IMBM Discrete Mathematics Days, Audience, İstanbul, Turkey, 2018

2nd IMA Conference on Theoretical and Computational Discrete Mathematics, Attendee, London, United Kingdom, 2018

Cebirsel Sayılar Kuramı Yaz Okulu, Attendee, İstanbul, Turkey, 2018

Mantık Yaz Okulu, Attendee, İstanbul, Turkey, 2018

New Trends in Rings and Modules, Attendee, Kocaeli, Turkey, 2018

Workshop on Finite Fields, Audience, İstanbul, Turkey, 2018

Sabancı University (Seminar Series of Department of Mathematics), Invited Speaker, İstanbul, Turkey, 2018

Gokova Topology Workshop, Attendee, Muğla, Turkey, 2017

Antalya Algebra Days, Attendee, İzmir, Turkey, 2017

International Conference on Mathematics and Engineering '17, Audience, İstanbul, Turkey, 2017

Seventh International Conference on Modeling, Simulation and Applied Optimization, Attendee, Dubai, United Arab Emirates, 2017

Enstitute of Feza Gürsey, Representation Theory, Audience, İstanbul, Turkey, 2016

International Conference on Quantum Science and Applications, Attendee, Eskişehir, Turkey, 2016

Cebirsel Kodlama ve Kriptoloji Çalıştayı, Attendee, İstanbul, Turkey, 2015

Kriptoloji Yaz Okulu (TUBİTAK), Working Group, Kocaeli, Turkey, 2015

Invited Talks

A Brief Introduction to Quantum Error Correcting Codes, Seminar, University of the West Indies, Jamaica, March 2022
Quantum Error Correcting Codes, Workshop, Turkey Mathematics Club Algebra Workshop, Turkey, November 2020
Algebraic and Quantum Coding Theory, Workshop, QWorld/QWomen Workshop, Turkey, March 2020
Quantum Error Correcting Codes, Seminar, Sabancı University, Turkey, March 2018

Research Areas

Error Corrector Codes, Quantum Communication, Cryptography, Algebraic Topology, Commutative Rings and Algebras

Non Academic Experience

Stockholm University
TÜBİTAK