

## Res. Asst. Eda YILDIZ

### Personal Information

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### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, Turkey 2017 - Continues

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Mühendisliği, Turkey 2015 - Continues

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Cebir Ve Sayılar Teorisi, Turkey 2015 - 2017

Undergraduate, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Matematik, Turkey 2011 - 2015

Undergraduate, Stockholms Universitet (Stockholm University), Mathematics, Mathematics, Sweden 2013 - 2014

### 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

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

### Research Areas

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

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2017 - Continues

### Academic and Administrative Experience

Bölüm Kalite Komisyonu Üyesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2018

- Continues

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

- I. **On S-comultiplication modules**  
Yıldız E., Tekir Ü., Koç S.  
Turkish Journal Of Mathematics, vol.45, pp.1-13, 2021 (Journal Indexed in SCI Expanded)
- II. **On weakly 1-absorbing prime ideals**  
Koç S., Tekir Ü., Yıldız E.  
RICERCHE DI MATEMATICA, 2021 (Journal Indexed in SCI)
- III. **On the number of  $Z(2)Z(4)$  and  $Z(p)Z(p^2)$ -additive cyclic codes**  
YILDIZ E., Abualrub T., AYDOĞDU İ.  
APPLICABLE ALGEBRA IN ENGINEERING COMMUNICATION AND COMPUTING, 2021 (Journal Indexed in SCI)
- IV. **On S-Zariski topology**  
YILDIZ E., ERSOY B. A. , TEKİR Ü., KOÇ S.  
COMMUNICATIONS IN ALGEBRA, vol.49, no.3, pp.1212-1224, 2020 (Journal Indexed in SCI)
- V.  **$(2, J)$ -IDEALS IN COMMUTATIVE RINGS**  
YILDIZ E., TEKİR Ü., KOÇ S.  
COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, vol.73, no.9, pp.1201-1209, 2020 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **On graded 1-absorbing prime ideals**  
Abu-Dawwas R., YILDIZ E., TEKİR Ü., KOÇ S.  
SAO PAULO JOURNAL OF MATHEMATICAL SCIENCES, 2021 (Journal Indexed in ESCI)
- II. **On  $\phi$ -1-absorbing prime ideals**  
YILDIZ E., TEKİR Ü., KOÇ S.  
BEITRAGE ZUR ALGEBRA UND GEOMETRIE-CONTRIBUTIONS TO ALGEBRA AND GEOMETRY, 2021 (Journal Indexed in ESCI)
- III. **On Bounds for Quantum Error Correcting Codes over EJ-Integers**  
Yıldız E.  
Electronic Notes in Discrete Mathematics, vol.70, pp.89-94, 2018 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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
- IV. **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

**V. 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

**VI. A New Approach to Quantum Error Correcting Codes**

YILDIZ E.

New Trends in Rings and Modules, Kocaeli, Turkey, 20 June 2018, pp.40

**VII. 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

**VIII. A New Class of Quantum Codes**

Yıldız E., Demirkale F.

Antalya Algebra Days 2017, İzmir, Turkey, 17 - 21 May 2017

## Other Publications

**I. Quantum Codes over Eisenstein-Jacobi Integers, M.Sc. Thesis**

Yıldız E.

Other, pp.1-97, 2017

## Scientific Refereeing

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

## Edit Congress and Symposium Activities

QWomen İstanbul 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

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

Antalya Algebra Days, Attendee, İzmir, 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

## **Citations**

Total Citations (WOS):4

h-index (WOS):1

## **Scholarships**

2211 Doctoral Scholarship, TUBITAK, 2017 - Continues