

Assoc. Prof. ELİF ILGAZ ÇAĞLAYAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: IUL-1451-2023

ScopusID: 56850334900

Yoksis Researcher ID: 162208

Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Dr), Turkey 2013 - 2018

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (YI) (Tezli), Turkey 2011 - 2013

Dissertations

Doctorate, Cebirler üzerinde çaprazlanmış modüllerin (Ko)homolojisi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Dr), 2018

Research Areas

Mathematics, Associative Rings and Algebras, Nonassociative Rings and Algebras, Algebraic Topology, Field Theory and Polynomials, Commutative Rings and Algebras, General Algebraic Systems, General Topology, Group Theory and Generalizations, Natural Sciences

Academic Titles / Tasks

Associate Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2023 - Continues

Assistant Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2020 - 2023

Research Assistant, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2018 - 2020

Research Assistant, Eskisehir Osmangazi University, 2011 - 2017

Academic and Administrative Experience

Bilecik Seyh Edebali University, 2022 - Continues

Courses

Doctorate

Cisim Teori, Doctorate, 2023 - 2024

İleri Modül Teori, Doctorate, 2022 - 2023

Postgraduate

Cebirde Seçme Konular, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Halkalar ve Modüller, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Kategori Teori ve Uygulamaları, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Çaprazlanmış Modüller, Postgraduate, 2021 - 2022

Sayılar Teorisinde Seçme Konular, Postgraduate, 2020 - 2021

Undergraduate

Cebir II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Cebir I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Matematik I, Undergraduate, 2021 - 2022

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Bilecik Şeyh Edebali Üniversitesi, July, 2023

Doctorate, Doctorate, Bilecik Şeyh Edebali Üniversitesi, October, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On classifying simplicial modules**
ARVASI Z., ILGAZ ÇAĞLAYAN E.
Communications in Algebra, vol.52, no.3, pp.945-959, 2024 (SCI-Expanded)
- II. **Commutativity degree of crossed modules**
ARVASI Z., Çağlayan E., ODABAŞ A.
Turkish Journal of Mathematics, vol.46, no.1, pp.242-256, 2022 (SCI-Expanded)
- III. **n-Isoclinic Lie Crossed Modules**
Çağlayan E.
Filomat, vol.36, no.14, pp.4935-4946, 2022 (SCI-Expanded)
- IV. **Generalization of Zorn's lemma: maximal crossed ideals**
ILGAZ ÇAĞLAYAN E., EGE ARSLAN U.
Communications in Algebra, vol.49, no.9, pp.3727-3735, 2021 (SCI-Expanded)
- V. **On 2-algebras: Crossed R-modules and Categorical R-algebras**
ARVASI Z., Çağlayan E.
Turkish Journal of Mathematics, vol.45, no.3, pp.1319-1336, 2021 (SCI-Expanded)
- VI. **Isoclinism of crossed modules**
ODABAŞ A., USLU E., ILGAZ ÇAĞLAYAN E.
Journal of Symbolic Computation, vol.74, pp.408-424, 2016 (SCI-Expanded)
- VII. **Projective crossed modules of algebras and cyclic homology**
ILGAZ ÇAĞLAYAN E.
Turkish Journal of Mathematics, vol.40, no.5, pp.995-1003, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Class preserving actor and commutativity degree of isoclinic Lie crossed modules**
ILGAZ ÇAĞLAYAN E.

New Trends in Mathematical Science, vol.10, no.3, 2022 (Peer-Reviewed Journal)

II. **n-exterior isoclinic Lie crossed modules**

ILGAZ ÇAĞLAYAN E.

New Trends in Mathematical Science, vol.10, no.3, 2022 (Peer-Reviewed Journal)

III. **Hurewicz and Poincare Theorems for Simplicial Modules**

ÇAĞLAYAN E. I.

Fundamental journal of mathematics and applications (Online), vol.5, no.2, pp.81-88, 2022 (Peer-Reviewed Journal)

IV. **Isoclinic Lie Crossed Modules**

ILGAZ ÇAĞLAYAN E., ODABAŞ A., USLU E. Ö.

arXiv, pp.1-14, 2016 (Non Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

I. **A CLASSIFICATION METHOD FOR LIE CROSSED MODULES: ISOCLINISM**

ILGAZ ÇAĞLAYAN E.

11th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2022), Turkey, 29 August 2022

II. **Categorical R-algebra As a Monoid Object**

ILGAZ ÇAĞLAYAN E.

ICRAPAM 2021, Turkey, 24 September 2021

III. **Generalizations of Ideals: Crossed Ideals**

ILGAZ ÇAĞLAYAN E.

IECMSA 2021, Turkey, 25 August 2021

IV. **Generalization of Projective Modules**

Ilgaz E.

ICRAPAM 2015, İstanbul, Turkey, 3 - 06 June 2015

Peer Reviews in Scientific Publications

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, National Scientific Refreed Journal, June 2022

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, January 2021