

## Prof. GÜLİN ERCAN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-1476-5314

Publons / Web Of Science ResearcherID: ABA-4390-2020

ScopusID: 6603255029

Yoksis Researcher ID: 111165

### Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1984 - 1988

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1982 - 1984

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1976 - 1981

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, On hughes problem, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1988

Postgraduate, on finite solvable groups admitting an automorphism of prime order, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1984

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2012 - Continues

### Courses

Representation theory of finite groups, Doctorate, 2016 - 2017

Finite Groups, Doctorate, 2016 - 2017

## Supervised Theses

ERCAN G., Prime graphs of solvable groups, Postgraduate, M.İkbal(Student), 2020

ERCAN G., The influence of some embedding properties of subgroups on the structure of a finite group, Doctorate, M.YASİR(Student), 2018

ERCAN G., On the generating graphs of the symmetric and alternating groups, Doctorate, F.ERDEM(Student), 2018

ERCAN G., Beauville structures in p-groups, Doctorate, Ş.GÜL(Student), 2016

ERCAN G., On the nilpotent length of a finite group with a Frobenius group of automorphisms, Doctorate, E.ÖĞÜT(Student), 2013

ERCAN G., On the index of fixed point subgroup, Doctorate, E.MURAT(Student), 2011

ERCAN G., On finite groups admitting a fixed point free Abelian operator groups whose order is a product of three primes, Doctorate, Ö.MUT(Student), 2009

ERCAN G., On finite groups admitting a fixed point free abelian operator group whose order is a product of three primes, Doctorate, Ö.Mut(Student), 2009

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Some special coprime actions and their consequences**  
ERCAN G., Güloğlu İ. Ş., Kizmaz M. Y., Revin D. O.  
Journal of Pure and Applied Algebra, vol.228, no.12, 2024 (SCI-Expanded)
- II. **Noncoprime action of a cyclic group**  
ERCAN G., Güloğlu İ. Ş.  
Journal of Algebra, vol.643, pp.1-10, 2024 (SCI-Expanded)
- III. **Nilpotent residual of a finite group**  
Rodrigues E., de Melo E., ERCAN G.  
Journal of Algebra, vol.641, pp.534-545, 2024 (SCI-Expanded)
- IV. **Commuting graph of a group action with few edges**  
Güloğlu İ. i. Ş., ERCAN G.  
Communications in Algebra, vol.51, no.7, pp.2791-2810, 2023 (SCI-Expanded)
- V. **Extensions of several coprime results to good action case**  
Ercan G., Guloglu I. S., Jabara E.  
Journal of Algebra and its Applications, vol.21, no.11, 2022 (SCI-Expanded)
- VI. **Good action of a nilpotent group with regular orbits**  
ERCAN G., GÜLOĞLU İ. Ş.  
COMMUNICATIONS IN ALGEBRA, vol.50, no.10, pp.4191-4194, 2022 (SCI-Expanded)
- VII. **Commuting graph of A-orbits**  
Gilloğlu I. S., Ercan G.  
JOURNAL OF GROUP THEORY, vol.24, no.3, pp.573-586, 2021 (SCI-Expanded)
- VIII. **A Brief Note on the Noncoprime Regular Module Problem**  
Ercan G., Güloğlu Ş.  
Ukrainian Mathematical Journal, vol.72, no.11, pp.1837-1841, 2021 (SCI-Expanded)
- IX. **Good action on a finite group**  
Ercan G., Güloğlu İ. Ş., Jabara E.  
JOURNAL OF ALGEBRA, vol.560, pp.486-501, 2020 (SCI-Expanded)
- X. **Frobenius action on Carter subgroups**  
Ercan G., Güloğlu İ. Ş.

- INTERNATIONAL JOURNAL OF ALGEBRA AND COMPUTATION, vol.30, pp.1073-1080, 2020 (SCI-Expanded)
- XI. **On abelian group actions with TNI-centralizers**  
Ercan G., Guloglu I. S.  
COMMUNICATIONS IN ALGEBRA, vol.47, pp.3003-3006, 2019 (SCI-Expanded)
- XII. **Frobenius groups of automorphisms with almost fixed point free kernel**  
Ercan G., Güloğlu İ. Ş.  
JOURNAL OF ALGEBRA, vol.521, pp.384-389, 2019 (SCI-Expanded)
- XIII. **Groups of automorphisms with TNI-centralizers**  
Ercan G., Güloğlu İ. Ş.  
JOURNAL OF ALGEBRA, vol.498, pp.38-46, 2018 (SCI-Expanded)
- XIV. **On the influence of fixed point free nilpotent automorphism groups**  
Ercan G., Güloğlu İ. Ş.  
MONATSHEFTE FÜR MATHEMATIK, vol.184, pp.531-538, 2017 (SCI-Expanded)
- XV. **Action of a Frobenius-like group with kernel having central derived subgroup**  
Ercan G., Güloğlu İ. Ş.  
INTERNATIONAL JOURNAL OF ALGEBRA AND COMPUTATION, vol.26, pp.1257-1265, 2016 (SCI-Expanded)
- XVI. **THE INFLUENCE OF HUGHES TYPE ACTION**  
Ercan G., Güloğlu İ. Ş.  
COMMUNICATIONS IN ALGEBRA, vol.43, pp.1898-1902, 2015 (SCI-Expanded)
- XVII. **Action of a Frobenius-like group with fixed-point free kernel**  
Ercan G., Güloğlu İ. Ş.  
JOURNAL OF GROUP THEORY, vol.17, pp.863-873, 2014 (SCI-Expanded)
- XVIII. **Derived length of a Frobenius-like kernel**  
Ercan G., Güloğlu İ. Ş., Khukhro E.  
JOURNAL OF ALGEBRA, vol.412, pp.179-188, 2014 (SCI-Expanded)
- XIX. **Rank and Order of a Finite Group Admitting a Frobenius-Like Group of Automorphisms**  
Ercan G., Güloğlu İ. Ş., Khukhro E. I.  
ALGEBRA AND LOGIC, vol.53, pp.258-265, 2014 (SCI-Expanded)
- XX. **Action of a Frobenius-like group**  
Güloğlu I. Ş., Ercan G.  
Journal of Algebra, vol.402, pp.533-543, 2014 (SCI-Expanded)
- XXI. **NILPOTENT LENGTH OF A FINITE SOLVABLE GROUP WITH A FROBENIUS GROUP OF AUTOMORPHISMS**  
ERCAN G., GÜLOĞLU İ. Ş., Oğut E.  
COMMUNICATIONS IN ALGEBRA, vol.42, no.11, pp.4751-4756, 2014 (SCI-Expanded)
- XXII. **Frobenius-like groups as groups of automorphisms**  
Ercan G., Güloğlu İ. Ş., Khukhro E.  
TURKISH JOURNAL OF MATHEMATICS, vol.38, pp.965-976, 2014 (SCI-Expanded)
- XXIII. **A GENERALIZED FIXED-POINT-FREE ACTION**  
Güloğlu İ. Ş., Ercan G.  
JOURNAL OF ALGEBRA AND ITS APPLICATIONS, vol.12, 2013 (SCI-Expanded)
- XXIV. **On a Fitting length conjecture without the coprimeness condition**  
Ercan G.  
MONATSHEFTE FÜR MATHEMATIK, vol.167, pp.175-187, 2012 (SCI-Expanded)
- XXV. **A generalized fixed point free automorphism of prime power order**  
Ercan G., Güloğlu İ. Ş.  
International Journal of Algebra and Computation, vol.22, 2012 (SCI-Expanded)
- XXVI. **FIXED-POINT FREE ACTION OF AN ABELIAN GROUP OF ODD NON-SQUAREFREE EXPONENT**  
ERCAN G., GÜLOĞLU İ. Ş., Sagdicoglu O. M.  
PROCEEDINGS OF THE EDINBURGH MATHEMATICAL SOCIETY, vol.54, pp.77-89, 2011 (SCI-Expanded)
- XXVII. **Fixed point free action on groups of odd order**

- Ercan G., GÜLOĞLU İ. Ş.  
 JOURNAL OF ALGEBRA, vol.320, no.1, pp.426-436, 2008 (SCI-Expanded)
- XXVIII. **On finite groups admitting a special noncoprime action**  
 Ercan G.  
 PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY, vol.133, no.9, pp.2543-2547, 2005 (SCI-Expanded)
- XXIX. **Finite groups admitting fixed-point free automorphisms of order  $pqr$**   
 Ercan G., Guloglu I.  
 JOURNAL OF GROUP THEORY, vol.7, no.4, pp.437-446, 2004 (SCI-Expanded)
- XXX. **On the Fitting length of  $H_n(G)$**   
 Ercan G., Güloğlu İ. Ş.  
 Rendiconti Del Seminario Matematico Della Universita Di Padova, vol.89, pp.171-175, 1993 (SCI-Expanded)
- XXXI. **On the Fitting length of  $Hpq(G)$**   
 Güloğlu I. Ş., ERCAN G.  
 Archiv der Mathematik, vol.56, no.3, pp.214-217, 1991 (SCI-Expanded)
- XXXII. **ON THE FITTING LENGTH OF  $HPQ(G)$**   
 ERCAN G., GULOGLU I.  
 ARCHIV DER MATHEMATIK, vol.56, no.3, pp.214-217, 1991 (SCI-Expanded)
- XXXIII. **ON THE FITTING LENGTH OF GENERALIZED HUGHES SUBGROUP**  
 ERCAN G., GULOGLU I.  
 ARCHIV DER MATHEMATIK, vol.55, no.1, pp.5-9, 1990 (SCI-Expanded)
- XXXIV. **On a generalization of Hughes problem**  
 Ercan G., Güloğlu İ. Ş.  
 Tübitak Doğa Matematik, no.13, pp.107-109, 1989 (SCI-Expanded)
- XXXV. **A note on a paper of Jui Chi Chang: "A note on the fixed point subgroup"** Doğa Mat. 10 (1986), no. 3, 326.  
 Ercan G., Güloğlu İ. Ş.  
 Tübitak Doğa Matematik, no.10, pp.326-327, 1986 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Finite groups admitting a dihedral group of automorphisms**  
 Ercan G., Güloğlu İ. Ş.  
 ALGEBRA & DISCRETE MATHEMATICS, vol.23, pp.223-229, 2017 (Peer-Reviewed Journal)
- II. **Finite groups having centralizer commutator product property**  
 ERCAN G.  
 RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO, vol.64, no.3, pp.341-346, 2015 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Group actions with TNI-centralizers**  
 ERCAN G.  
 Groups St Andrews 2017 in Birmingham, Birmingham, United Kingdom, 5 - 13 August 2017
- II. **Influence of the fixed point subgroup in group actions**  
 ERCAN G.  
 Finite groups and their automorphisms 2017, Bolu, Turkey, 3 - 06 May 2017
- III. **Group actions with TNI-centralizers.**  
 ERCAN G.  
 Cemal Koç Algebra Days 2017, İstanbul, Turkey, 29 April 2017
- IV. **Frobenius like groups as groups of automorphisms**

ERCAN G.

FINITE GROUPS AND THEIR AUTOMORPHISMS, İstanbul, Turkey, 7 - 11 August 2015

**V. Action of a Frobenius like group**

ERCAN G.

Zassenhaus Group Theory Conference, Binghamton University, New-York, United States Of America, 22 - 24 May 2015

**VI. Fixed Point Free Action**

ERCAN G.

II. Kadın Matematikçiler Derneği Çalıştay, Sivas, Turkey, 1 - 03 May 2015

## Supported Projects

ERCAN G., Project Supported by Higher Education Institutions, Frobenius benzeri grupların yapıları ve etkileri, 2014 - 2015

## Activities in Scientific Journals

Hacettepe Journal Of Mathematics And Statistics, Committee Member, 2012 - Continues

## Scientific Refereeing

JOURNAL OF ALGEBRA, Journal Indexed in SCI-E, October 2018

COMMUNICATIONS IN ALGEBRA, SCI Journal, October 2018

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, October 2010

## Tasks In Event Organizations

Ercan G., Workshop on finite groups and their automorphisms, Workshop Organization, İstanbul, Turkey, Haziran 2011

## Metrics

Publication: 43

Citation (WoS): 72

Citation (Scopus): 73

H-Index (WoS): 5

H-Index (Scopus): 5

## Non Academic Experience

METU, Professor

METU, Associate Professor (Title)

METU , Assistant Professor

METU , Instructor/Reader

METU , Assistant