

List of papers

I. Relevant papers :

1. *Subgroup commutativity degrees of finite groups*, Journal of Algebra, vol. 321 (2009), no. 9, 2508-2520, doi: 10.1016/j.jalgebra.2009.02.010, MR 2504488, ZBL 1196.20024.
- 1 bis. *Addendum to “Subgroup commutativity degrees of finite groups”*, Journal of Algebra, vol. 337 (2011), no. 1, 363-368, doi: 10.1016/j.jalgebra.2011.05.001, MR 2796081, ZBL 1233.20023.
2. *Pseudocomplementation in (normal) subgroup lattices* (with T. De Medts), Communications in Algebra, vol. 39 (2011), no. 1, 247-262, doi: 10.1080/00927870903527493, MR 2770893, ZBL 1218.20014.
3. *A characterization of generalized quaternion 2-groups*, Comptes Rendus Mathématique, vol. 348 (2010), no. 13-14, 731-733, doi: 10.1016/j.crma.2010.06.016, MR 2671150, ZBL 1205.20024.
4. *Finite groups determined by an inequality of the orders of their subgroups* (with T. De Medts), Bulletin of the Belgian Mathematical Society – Simon Stevin, vol. 15 (2008), no. 4, 699-704, MR 2475493 (2009j:20033), ZBL 1166.20017.
5. *Finite groups determined by an inequality of the orders of their elements*, Publicationes Mathematicae Debrecen, vol. 80 (2012), no. 3-4, 457-463, doi: 10.5486/PMD.2012.5168, MR 2943017, ZBL 1261.20028.
6. *Solitary quotients of finite groups*, Central European Journal of Mathematics, vol. 10 (2012), no. 2, 740-747, doi: 10.2478/s11533-012-0003-0, MR 2886569, ZBL 1257.20024 (a se vedea, de asemenea, *Erratum to “Solitary quotients of finite groups”*, Central European Journal of Mathematics, vol. 11 (2013), no. 2, 376-377, doi: 10.2478/s11533-012-0134-3, MR 3000653, ZBL 1260.20031).
7. *A generalization of Menon’s identity*, Journal of Number Theory, vol. 132 (2012), no. 11, 2568-2573, doi: 10.1016/j.jnt.2012.05.012, MR 2954990, ZBL 1276.11010.
8. *A characterization of elementary abelian 2-groups*, Archiv der Mathematik, vol. 102 (2014), no. 1, 11-14, MR 3154153, ZBL 06289390.
9. *The normal subgroup structure of ZM-groups*, Annali di Matematica Pura ed Applicata, vol. 193 (2014), no. 4, 1085-1088, MR 3237917, ZBL 06342893.
10. *A note on the product of element orders of finite abelian groups*, Bulletin of the Malaysian Mathematical Sciences Society, vol. 36 (2013), no. 4, 1123-1126, MR 3108800, ZBL 1280.20058.

I bis. Other relevant papers :

1. *An arithmetic method of counting the subgroups of a finite abelian group*, Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie (N.S.), tome 53/101 (2010), no. 4, 373-386, MR 2777681, ZBL 1231.20051.
2. *On the number of fuzzy subgroups of finite abelian groups* (with L. Bentea), Fuzzy Sets and Systems, vol. 159 (2008), no. 9, 1084-1096, doi: 10.1016/j.fss.2007.11.014, MR 2418786 (2009c:20127), ZBL 1171.20043.
3. *The number of fuzzy subgroups of finite cyclic groups and Delannoy numbers*, European Journal of Combinatorics, vol. 30 (2009), no. 1, 283-287, doi: 10.1016/j.ejc.2007.12.005, MR 2460233 (2009i:20135), ZBL 1161.20059.
4. *Distributivity in lattices of fuzzy subgroups*, Information Sciences, vol. 179 (2009), no. 8, 1163-1168, doi: 10.1016/j.ins.2008.12.003, MR 2502093, ZBL 1160.20063.
5. *On the converse of Fuzzy Lagrange's Theorem*, Journal of Intelligent & Fuzzy Systems, vol. 27 (2014), no. 3, 1487-1490.
6. *On the factorization numbers of some finite p -groups*, accepted for publication in Ars Combinatoria.
7. *Finite groups with a certain number of cyclic subgroups*, accepted for publication in American Mathematical Monthly.
8. *Cyclicity degrees of finite groups* (with L. Tóth), accepted for publication in Acta Mathematica Hungarica.
9. *The posets of classes of isomorphic subgroups of finite groups*, accepted for publication in Bulletin of the Malaysian Mathematical Sciences Society.
10. *On finite groups with dismantlable subgroup lattices*, accepted for publication in Canadian Mathematical Bulletin.

II. Ph. D. theses :

1. *Actions of finite groups on lattices*, "Ovidius" University, Constanța, 2003, scientific advisor: prof. dr. M. Ștefănescu, scientific referees: acad. prof. dr. C. Năstăsescu, c.p. I dr. Ș. Basarab, prof. dr. I. Tofan.

III. Books :

1. *Actions of finite groups on lattices*, Seminar Series in Mathematics, Algebra 4, Universitatea "Ovidius", Constanța, 2003, ISSN 1223-723x, MR 2208389 (2006j:06010), ZBL 1149.06003.
2. *Probleme de algebră*, vol. I, Editura Universității "Al. I. Cuza", Iași, 2003, ISBN 973-8243-85-8/973-8243-86-6.
3. *Probleme de algebră*, vol. II, Editura Universității "Al. I. Cuza", Iași, 2004, ISBN 973-8243-85-8/973-703-004-4.

4. *Groups determined by posets of subgroups*, Editura Matrix Rom, București, 2006, ISBN (10) 973-755-122-2, ISBN (13) 978-973-755-122-1, MR 2289781 (2007j:20036), ZBL 1123.20001.

IV. Papers (in journals) :

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2. *Non-units ideals in algebraic function field*, Scripta Scientiarum Mathematicarum, vol. II, fasc. I, Chișinău, 2002, 180-190.
3. *Some properties of the divisible rings*, Scripta Scientiarum Mathematicarum, vol. II, fasc. I, Chișinău, 2002, 172-180.
4. *On the subgroup lattice of a semidirect product of finite cyclic groups*, Memoriile Secțiilor Științifice ale Academiei Române, tome XXV (2002), 219-228, MR 2150333 (2006h:20037).
5. *Actions of groups on lattices*, Scientific Annals of the "Ovidius" University of Constanța, vol. X (2002), series Mathematics, fasc. 1, 135-148, MR 2070193 (2005b:05220), ZBL 1058.05069, cited by:
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6. *Special classes of hypergroup representations*, Italian Journal of Pure and Applied Mathematics, vol. 14 (2003), 213-218, MR 2073562, ZBL 1149.20305, cited by:
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7. *Latticeal representations of groups*, Scientific Annals of the "Al. I. Cuza" University of Iași, tome L (2004), series Mathematics, fasc. 1, 19-31, MR 2129028 (2006e:20029), ZBL 1078.20027.
8. *Elementary non-CLT groups of order pq^n* , Current Topics in Computer Science, F. Eugeni, H. Luchian eds., Ed. Panfilius, Iași, 2004, 105-108.
9. *A note on fundamental group lattices*, Current Topics in Computer Science, F. Eugeni, H. Luchian eds., Ed. Panfilius, Iași, 2004, 109-114.
10. *Pseudocomplemented groups*, Scientific Annals of the "Al. I. Cuza" University of Iași, tome LI (2005), series Mathematics, fasc. 1, 201-206, MR 2187369 (2006i:20020), ZBL 1109.20018.
11. *On finite groups without normal subgroups of the same order*, Memoriile Secțiilor Științifice ale Academiei Române, tome XXVIII (2005), 17-20, MR 2360443 (2008i:20023).
12. *On isomorphisms of canonical E-lattices*, Fixed Point Theory, vol. 8 (2007), no. 1, 131-139, MR 2309287 (2008a:08001), ZBL 1123.06004.

13. *On the poset of conjugacy classes of subgroups of groups*, Advances in Abstract Algebra, I. Tofan, M. Gontineac, M. Tărnăuceanu eds., Ed. Al. Myller, Iași, 2007, 103-122.
14. *E-lattices*, Italian Journal of Pure and Applied Mathematics, vol. 22 (2007), 27-38, MR 2360994 (2009a:06015), ZBL 1175.06001.
15. *A new method of proving some classical theorems of abelian groups*, Southeast Asian Bulletin of Mathematics, vol. 31 (2007), no. 6, 1191-1203, MR 2386997 (2009a:20090), ZBL 1145.20313, cited by:
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VII. Submitted papers :

1. *Normality degrees of finite groups.*
2. *A generalization of the Euler's totient function.*
3. *On the number of diamonds in the subgroup lattice of a finite abelian group.*
4. *A new equivalence relation to classify the fuzzy subgroups of finite groups.*
5. *The subgroup commutativity degree of finite P -groups.*
6. *A note on a metric associated to certain finite groups.*

VIII. Papers in work :

1. *Cyclic subgroup commutativity degrees of finite groups.*
2. *Cyclic factorization numbers of finite groups.*
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4. *A characterization of $\text{PSL}(2, q)$, $q=5,7$.*

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