

PUBLICATION LIST

1. Ummul Aymen, James Della-Guistina, L.-K. Lauderdale, Jason Riley, Jr., Erin Stales, and Jay Zimmerman, On the Fixing Sets of Finite Groups, submitted to Journal of Pure and Applied Algebra
2. C.L. May and J. Zimmerman, Maximal order group actions on Riemann surfaces of genus $1 + p$, submitted Houston Journal Math.
3. C.L. May and J. Zimmerman, Maximal order group actions on Riemann surfaces of genus $1 + 3p$, Rocky Mountain Journal Math. 54, No. 2 (2024) 495 - 508.
4. J. Zimmerman and C. L. May, Maximal order group actions on Riemann surfaces, *Ars Math. Contemp.* 22, No. 1 (2022), doi:10.26493/1855-3974.2257.6de.
5. Vertex-minimal graphs with nonabelian 2-group symmetry. (with Lauderdale, L-K) Journal of Algebraic Combinatorics 54 (2021) 205-221, doi: 10.1007/s10801-020-00975-y.
6. The Symmetric Genus Spectrum of Abelian Groups, (with Coy L. May), *Ars Mathematica Contemporanea* 17, No. 2 (2019) 627 – 636. DOI: 10.26493/1855-3974.1921.d6f.
7. The Strong Symmetric Genus Spectrum of Nilpotent Groups, (with Coy L. May), *Communications in Algebra* 47, No. 8 (2019) 3056 – 3063.
DOI: 10.1080/00927872.2018.1549666
8. The Real Genus Spectrum of Abelian Groups, (with Coy L. May), *Journal of Algebra and its Applications* 18, No. 8 (2019) 1950158.
<http://dx.doi.org/10.1142/S0219498819501585>.
9. The Density of the Strong Symmetric Genus Values of p-Groups, (with Coy L. May), *Communications in Algebra*, 45, Issue 11 (2017), 4730 - 4739.
10. Portraits of Groups on Bordered Surfaces, *Proceedings of Bridges 2016: Mathematics, Music, Art, Architecture, Education, Culture*, Jvaskyla, Finland, p. 241 - 246.
11. The Strong Symmetric Genus Spectrum of Abelian Groups (with Angel Kumchev and Coy L. May), *Archiv der Mathematik*, 108(4), 341-350.
12. The Symmetric Genus of Large Odd Order Groups (with Coy L. May), *Houston J. Math.*, 44, No. 1 (2018) p. 1 – 19.
13. The Density of the Real Genus Values of p-Groups (with Coy L. May), *Mathematical Proceedings of the Royal Irish Academy*, 2015 <http://dx.doi.org/10.3318/PRIA.2015.115.7>.
14. The Symmetric Genus of p-Groups (with Coy L. May), *Communications in Algebra*, Issue 10 (2014) p. 4402 - 4413.

15. The Real Genus of p -Groups (with Coy L. May), *Mathematical Proceedings of the Royal Irish Academy*, 113A, No. 1 (2013), 31 – 43.
16. The Symmetric Genus of 2-Groups (with Coy L. May), *Glasgow Mathematical Journal*, 55, No. 1 (2013), 9 – 21.
17. Portraits of Groups in Three Dimensions (with Kevin Zimmerman), *Proceedings 2012, Bridges: Mathematical Connections in Art, Music and Science*, Towson, MD, USA, 413 – 414.
18. Subdirect Products of M^* -groups (with Coy L. May), *Rocky Mountain Journal of Mathematics*, 42, No. 5 (2012), 1561 - 1582.
19. A Portrait of a Quadrilateral Group, *Proceedings 2011, Bridges: Mathematical Connections in Art, Music and Science*, Coimbra, Portugal, 505 – 508.
20. Minimal Extension Covers (with Coy L. May), *Communications in Algebra*, 39, No. 4, (2011), 1250 - 1259.
21. The Real Genus of 2-Groups II (with Coy L. May), *Mathematical Proceedings of the Royal Irish Academy*, 110A (2010), 137 – 147; doi: 10.3318/PRIA.2010.110.2.137.
22. The 2-Groups of Odd Strong Symmetric Genus (with Coy L. May), *Journal of Algebra and its Applications*, 9, No. 3 (2010), 465 – 481.
23. A Group Portrait on a Surface of Genus Five, *Proceedings 2009, Bridges: Mathematical Connections in Art, Music and Science*, Banff, Alberta, Canada, 259 - 264.
24. Teaching Group Theory using Portraits of Groups, *Proceedings 2008, Bridges, Leeuwarden: Mathematical Connections in Art, Music and Science*, Municipality of Leeuwarden, the Netherlands, 377 - 380.
25. The Groups of Symmetric Genus $\sigma \leq 8$ (with Coy L. May), *Communications in Algebra*, 36, No. 11 (2008), 4078 - 4095.
26. The Symmetric Genus of Groups of Odd Order (with Coy L. May), *Houston J. of Math.* 34, No. 2 (2008), 319 – 338.
27. Portraits of Groups II, Orientation Reversing Actions, *Proceedings 2007, Bridges, Donostia: Mathematical Connections in Art, Music and Science*, San Sebastian, Spain, 109 - 114.
28. Predicting Demand for the Carroll Area Transit System (with Ge Han), *UMAP Journal*, Vol. 27, No. 1 (2006), 3 - 15.

29. Portraits of Groups, Proceedings 2006, Bridges London: Mathematics, Music, Art, Architecture and Culture, London, England, 131 - 134.
30. Symmetries and Design Science, Two graduate courses for a mathematics education program (with Reza Sarhangi), Proceedings 2005, Bridges: Mathematical Connections in Art, Music and Science, Banff, Alberta, Canada, 357 - 366.
31. The Groups of Strong Symmetric Genus Four (with Coy L. May), Houston J. of Math. 31, No. 1 (2005), 21 – 35.
32. There is a Group of Every Strong Symmetric Genus (with Coy L. May), Bull. London Math. Soc. 35 (2003), 433 – 439.
33. The group of symmetric Euler characteristic -3 (with Coy L. May), Houston J. Math. 27, No. 4 (2001), 737 – 752.
34. The mathematics of information science (with James W. Smith), Journal of Mathematics and Science: Collaborative Explorations 4, No. 1 (2001) 187 - 214.
35. Groups of small strong symmetric genus (with Coy L. May), Journal of Group Theory 3, Issue 3 (2000) 233-245.
36. The symmetric genus of 2-groups, Glasgow Math. J. 41 (1999) 115-124.
37. The groups of symmetric genus three (with Coy L. May), Houston J. Math. 23, No. 4, (1997), 573 - 590.
38. The symmetric genus of metacyclic groups (with Coy L. May), Topology and its Applications, 66, (1995), 101-115.
39. Groups of small symmetric genus (with Coy L. May), Glasgow Math. J., 37, (1995), 115 - 129.
40. Groups that admit partial power automorphisms, Groups '93, Galway/St. Andrews, Volume 2, London Mathematical Society Lecture Note Series 212, Cambridge University Press, 594-601.
41. The symmetric genus of finite abelian groups (with Coy L. May) Illinois J. of Math., Vol. 37, No. 3, Fall 1993, 400-423.
42. Groups with automorphisms squaring most elements, Arch. Math. 54,(1990), 241-246.
43. Complete groups with non-abelian composition factors, Trans. Amer. Math. Soc., Vol. 302, Number 1, July 1987, 151-159.

44. Some properties of FC-groups which occur as automorphism groups, Proc. Amer. Math. Soc., 96 (1), (1986), 39-40.
45. Finite groups which are automorphism groups of infinite groups only, Canad. Math Bull. 28(1), (1985), 84-90.
46. Countable torsion FC-groups as automorphism groups, Arch. Math. 43, (1984), 108-116.