

## Publications

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1. Total domination edge critical graphs, *Utilitas Mathematica*. 54 (1998) 229–240 (with T. W. Haynes and C. M. Mynhardt).
2. Criticality index of total domination, *Congressus Numerantium*. 131 (1998) 67–73 (with T. W. Haynes and C. M. Mynhardt).
3. 3-domination critical graphs with arbitrary independent domination numbers, *Bulletin of the Institute of Combinatorics and its Applications*. 27 (1999) 85–88 (with T. W. Haynes and C.M. Mynhardt).
4. Domination and total domination critical trees with respect to relative complements, *Ars Combinatoria*. 59 (2001) 117-127. (with Michael Henning and Teresa Haynes).
5. Total domination edge critical graphs with minimum diameter, *Ars Combinatoria*. 66 (2003), 79-96. (with T. W. Haynes and C.M. Mynhardt).
6. Total domination critical graphs with respect to relative complements, *Ars Combinatoria*. 64(2002), 169-179. (with Michael Henning and Teresa Haynes).
7. Total domination subdivision numbers, *JCMCC*. 44 (2003) 115-128 (with Stephen Hedetniemi and Teresa Haynes).
8. Total domination edge critical graphs with maximum diameter, *Discussiones Mathematicae Graph Theory*. 21 (2001) 187-205 (with Teresa Haynes and C.M. Mynhardt).
9. Domination subdivision numbers, *Discussiones Mathematicae Graph Theory*. 21 (2001) 239-253. (with Sandra Hedetniemi, Stephen Hedetniemi, David Jacobs, James Knisely, and Teresa Haynes).
10. Total domination supercritical graphs with respect to relative complements, *Discrete Mathematics*. 258 (2002) 361-371 (with Michael Henning and Teresa Haynes).
11. The Diameter of total domination vertex critical graphs, *Discrete Mathematics*. 286 (2004) 255-261, (with W. Goddard, T. Haynes, M. Henning).
12. Realizability of the total domination criticality index, *Utilitas Mathematica*. 67 (2005), 3-8 (with T.W. Haynes and C.M. Mynhardt).
13. 4-Critical graphs with maximum diameter, *JCMCC*. 60 (2007), 65-80. (with Marc Loizeaux).

14. A total domination vertex critical graph with diameter two, *Bulletin of the Institute of Combinatorics and its Applications*. 48 (2006), 63-65 ( with Marc Loizeaux)
15. The Complementary product of two graphs, *Bulletin of the Institute of Combinatorics and its Applications*. 51,(2007) 21-30 (with Teresa Haynes, Mike Henning and Peter Slater).
16. A family of 4-critical graphs with diameter three, to appear *ARS Combinatoria*. (2007) (with Marc Loizeaux and Francesco Barioli).
17. Diameter of  $\gamma_t$ -edge critical graphs, Submitted, *SIAM Journal of Discrete Math*, (8/2008) with Mike Henning.
18. Bounds on the order of 4-critical graphs, *Utilitas Mathematica* 78 (2009), 707-119, with Marc Loizeaux.
19. Criticity index of total domination of a path, to appear *Utilitas Mathematica*, (7/2009), Johan Hattingh and Ernst Joubert.
20. Domination and total domination of complementary prisms, *Journal of Combinatorial Optimization* 18 (2009), no. 1, 23-37, with Mike Henning, Teresa Haynes.
21. On the existence of  $k$ -partite or  $K_p$ -free total domination edge-critical graphs, submitted, *Discrete Mathematics*, (6/2009), Teresa Haynes, Mike Henning and Anders Yeo.
22. On a conjecture of Murty and Simon on diameter two critical graphs, submitted, *Discrete Math*, (9/2009), Teresa Haynes, Mike Henning and Anders Yeo.
23. Vertex and edge critical total restrained domination in graphs, *Bulletin of the Institute of Combinatorics and its Applications* 57 (2009) 107-117,) with J.H. Hattingh, R. Gera and N. Jafari Rad and E. Joubert.
24. Restrained domination in unicyclic graphs, *Discussiones Mathematicae Graph Theory* 29 (2009) with J. Hattingh, M. Loizeaux, E. Joubert and A. Plummer.
25. A Nordhaus-Gaddum-type result for the induced path number, to appear *Journal of Combinatorial Optimization*, (5/2010), Johannes Hattingh, Ossama Saleh, Terry Walters.
26. Properties of total domination edge-critical graphs, *Discrete Applied Mathematics*, 158 (2010), no. 2, 147-153, with Mike Henning.
27. Nordhaus-Gaddum results for the sum of the induced path number of a graph and its complement, submitted (December 2010), *Acta Mathematica Sinica, English Series*, Johannes Hattingh, Ossama Saleh, Terry Walters.
28. On the maximum degree of  $3_t$ -critical graphs, submitted (January 2011), *Journal of Computing and Combinatorial Mathematics*, Francesco Barioli.