

Jim MacDougall's Publications

Journal Articles:

60. I. D. Gray & **J. A. MacDougall**, *Vertex-magic Labeling of Regular Graphs: Disjoint Unions and Assemblages*, (submitted).

59. I. D. Gray & **J. A. MacDougall**, *Vertex-magic Labeling of Regular Graphs II*, *Discrete Math.* (to appear).
58. L. G. Sweet & **J. A. MacDougall**, *Rational Homogeneous Algebra*, *Can. Math. Bull.* (to appear) .
57. I. D. Gray & **J. A. MacDougall**, *Vertex-magic Labeling of Non-regular Graphs*, *Austral. J. Combin.* (to appear).
56. L. G. Sweet & **J. A. MacDougall**, *The Maximum Dimension of a Subspace of Nilpotent Matrices of Index 2* *Lin. Alg. & Apps.* (to appear).
55. I. D. Gray & **J. A. MacDougall**, *Vertex-magic Labelings: Mutations*, *Austral. J. Combin.* (to appear).

54. R. B. Eggleton & J. A. MacDougall, *Consecutive Integers with Equally Many Principal Divisors*, *Math. Mag.* **81** (2008) no. 4, 235—248. [PrincipalDivisors.pdf](#)
53. J. A. MacDougall & W. D. Wallis, *Strong Edge-Magic Graphs of Maximum Size*, *Discrete Math.* **308**, (2008), 2756-2763. [SEMrev.pdf](#)
52. C. Chisholm & J. A. MacDougall, *Rational Tetrahedra with Edges in Geometric Progression*, *J. Num. Th.* **128**, no. 2, (2008) 251-262. [RationalGPTetrahedra.pdf](#)
51. Ralph H. Buchholz & James A. MacDougall, *Cyclic Polygons with Rational Sides and Area*, *J. Num. Th.* **128**, no. 1, 2008, 17-48

50. P. D. Adams, R. G. Eggleton, J. A. MacDougall, *Graphs with a Given Degree Sequence* *Congressus Numerantium* **179** (2006), 15-31. [Sentinels.pdf](#)
49. P. D. Adams, R. G. Eggleton, J. A. MacDougall, *Taxonomy of Graphs of Order 10*, *Congressus Numerantium* **179** (2006), 15-31. [GraphsOrder10.pdf](#)
48. I. D. Gray & J. A. MacDougall, *Sparse Anti-magic Squares and Vertex-magic Labelings of Bipartite Graphs*, *Disc. Math.* **306** (2006), 2878-2892. [SparseAntiMagic.pdf](#)
47. C. Chisholm & J. A. MacDougall, *Rational and Heron Tetrahedra*, *J. Num. Th.* **121** (2006) 153-185. [RationalHeronTetrahedra.pdf](#)
46. I. D. Gray & J. A. MacDougall, *Sparse Semi-magic Squares and Vertex-magic Labelings of Graphs*, *Ars Comb* **80** (2006). [MagicSquares.pdf](#)

45. M. Baca, J. A. MacDougall, M. Miller, *Vertex-magic Total Labelings of generalised Petersen graphs and convex polytopes*, Jour. Comb. Math. Comb. Comp. **58** (2006) [GenerPetersen.pdf](#)
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44. C. Chisholm & J. A. MacDougall, *Rational Tetrahedra with Edges in Arithmetic Progression*, J. Num. Th. **111** (2005), 57-80. [RationalAPTetraherda.pdf](#)
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43. P. Adams, R. Eggleton, J. MacDougall, *Degree Sequences and Poset Structure of Order 9 Graphs*, Congressus Numerantium **166** (2004), 83-95. [poset9.pdf](#)
42. P. Adams, R. Eggleton, J. MacDougall, *Structure of Graph Posets for Orders 4 to 8*, Congressus Numerantium **166** (2004), 63-81. [posets4to8.pdf](#)
41. J. A. MacDougall, *A Generalisation of the Copair Construction for Triangle-saturated Graphs* Utilitas Math. **66** (2004), 239-247. [GenCopairUtilitas.pdf](#)
40. J. A. MacDougall, M. Miller, K. Sugeng, *Super Vertex-magic Total Labelings of Graphs*, Proc. 15th Australasian Workshop on Combinatorial Algorithms (2004). [SuperVMTL.pdf](#)
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39. I. D. Gray, J. A. MacDougall, R. J. Simpson, W. D. Wallis, *Vertex-magic Total Labelings of Complete Bipartite Graphs*, Ars Comb. **69** (2003), 117--127. [bip10rev.pdf](#)
38. M. Baca, F. Bertault, J. A. MacDougall, M. Miller, R. Simanjuntak, Slamin, *Vertex-antimagic Total Labelings of Graphs*, Discussiones Mathematicae Graph Theory **23** (2003), 67-83. [VertexAntimagic.pdf](#)
37. J. A. MacDougall & W. D. Wallis, *Strong Edge-magic Labellings of a Cycle with a Chord* Austral. J. Combin. **28** (2003), 245-255. [StrongChord.pdf](#)
36. I. D. Gray, J. A. MacDougall, W. D. Wallis, *On Vertex-Magic Labeling of Complete Graphs*, Bull. I.C.A. **38** (2003), 42-44. [VlabelKn.pdf](#)
35. Mike Daven, J. A. MacDougall, C. A. Rodger, *Maximal sets of Hamilton cycles in complete multipartite graphs*, Jour. Graph Theory **43** (2003), 49-66. [DavenRodgerMac.pdf](#)
34. J. A. MacDougall, *Heron Triangles with Sides in Arithmetic Progression*, Jour. Rec. Math. **31** (2003), 189-196. [JRecMathHeron.pdf](#)
33. James A. MacDougall, *Mersenne Composites and Cyclotomic Primes*, Math. Gazette **87** (2003), 71-75. [Mersenne.pdf](#)
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27. J. A. MacDougall, Mirka Miller, Slamin, W. D. Wallis, *Vertex-magic Total Labelings of Graphs*, Utilitas Math **61** (2002), 3-21. [VertexMagic.pdf](#)
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25. R. B. Eggleton & J. A. MacDougall, *Minimally Star-Saturated Graphs*, Congressus Numerantium **149** (2001), 161-176. [StarSat.pdf](#)
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17. R. B. Eggleton & J. A. MacDougall, *Triangle-Saturated Graphs: The Hanging Planter Construction*, Congressus Numerantium **123** (1997), 79-96. [HangingPlanter.pdf](#)
16. R. B. Eggleton & J. A. MacDougall, *Triangle-Free and Triangle-Saturated Graphs*, Jour. Comb. Math. Comb. Comp. **25** (1997), 3-21. [FreeSat.pdf](#)
15. R. B. Eggleton & J. A. MacDougall, *Two Families of Primitive Minimal Triangle-Saturated Graphs*, Congressus Numerantium **19** (1996), 85-96. [TwoFamilies.pdf](#)
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7. L. G. Sweet & J. A. MacDougall, *Four Dimensional Homogeneous Algebras*, Pac. Jour. Math., **129** (1987), 375-383. [4DimHomog.pdf](#)
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