

## Publications :

### I. Articles (International)

1. *New proofs of Ramanujan's partition identities for moduli 5 and 7*. Journal of Number Theory **53** (1995), 144-159. [pdf](#)
2. *Some values for the Rogers-Ramanujan continued fraction*. Canadian Journal of Mathematics **20** (1995), 1-18. (Joint paper with B. C. Berndt.)
3. *Ramanujan's explicit values for the classical theta-function*. Mathematika **42** (1995), 278-294. (Joint paper with B. C. Berndt.)
4. *On Ramanujan's cubic continued fraction*. Acta Arithmetica **73**, no. 4, (1995), 343-355.
5. *Ramanujan's class invariants and cubic continued fraction*. Acta Arithmetica **73**, no. 1, (1995), 67-85. (Joint paper with B. C. Berndt, and L.-C. Zhang.)
6. *On the equivalence of Ramanujan's partition identities and a connection with the Rogers-Ramanujan continued fraction*. Journal of Mathematical Analysis and Applications **198**, (1996), 111-120. [pdf](#)
7. *Explicit evaluations of the Rogers-Ramanujan continued fraction*. Journal für die reine und angewandte Mathematik (Crelle) **480**, (1996), 141-159. (Joint paper with B. C. Berndt, and L.-C. Zhang)
8. *On Ramanujan-Gordon Quadratic Continued Fraction*. The Ramanujan Journal. **1** (1997), 75-90. (Joint paper with S.-S. Huang)
9. *Ramanujan's class invariants with applications to the values of  $q$ -continued fractions and theta functions*. Fields Institute Communications, **14** (1997), 37-53. (Joint paper with B.C. Berndt, and L.-C. Zhang)
10. *Ramanujan's class invariants, Kronecker's Limit Formula, and Modular Equations*. Transactions of the AMS. **349** (1997), no. 6, 2125-2173. (Joint paper with B. C. Berndt, and L.-C. Zhang) [pdf](#)
11. *Ramanujan's singular moduli*. The Ramanujan Journal. **1** (1997), 53-74 (Joint paper with B. C. Berndt, and L.-C. Zhang)
12. *Ramanujan's Remarkable Product of Theta-functions*. Proceedings of the Edinburgh Mathematical Society. **40** (1997), Part 3, 583-612. (Joint paper with B. C. Berndt, and L.-C. Zhang)

13. *Ramanujan's association with radicals in India*. Amer. Math. Monthly. **104** (1997), 913–919 (Joint work with B. C. Berndt and L.-C. Zhang)
14. *Ramanujan's modular equations and the Atkin-Lehner Involutions*. Israel Journal of Mathematics. **103** (1998), 1–16 (Joint paper with M.-L. Lang)
15. *On Ramanujan's transformation formula for  ${}_2F_1(1/3, 2/3; 1; z)$* . Mathematical Proceedings of the Cambridge Philosophical Society. **124** (1998), 193-204. [pdf](#)
16. *Ramanujan's class invariants and Watson's empirical process*. Journal of London Mathematical Society, series 2, **57**, (1998), 545-561. [pdf](#)
17. *Notes on Ramanujan's Singular Moduli*. The Proceedings of the Fifth Conference of the Canadian Number Theory Association, edited by R. Gupta and K.S. Williams, (1998), 7-16. (Joint paper with B.C. Berndt).
18. *Radicals and units in Ramanujan's work*. Acta Arithmetica. **87**, no. 2 (1998), 145-158. (Joint work with B.C. Berndt and L.C. Zhang)
19. *Eisenstein Series and  $\sum_{m,n=-\infty}^{\infty} q^{m^2+mn+2n^2}$* . Proceedings of the American Mathematical Society. **127**, no. 6, (1999), 1735-1744. (Joint work with Y. L. Ong) [pdf](#)
20. *The Rogers-Ramanujan continued fraction*. Journal of Computational and applied mathematics. **105**, (1999), 9-24. (Joint work with B.C. Berndt, S.S. Huang, S.Y. Kang, J. Sohn and S.H. Son )
21. *On explicit evaluations of the Rogers-Ramanujan continued fraction*. Contemporary Mathematics (AMS), vol. 236 (1999), 127-136. (Joint work with V. Tan)
22. *Ramanujan and the Modular  $j$ -invariant*. Canadian Mathematical Bulletin, vol. 42, no. 4, (1999), 427-440. (Joint work with B. C. Berndt) [pdf](#)
23. *Cubic modular equations and new Ramanujan-type series for  $1/\pi$* . Pacific J. Math.. vol. 192 (2000), 219-238. (Joint work with W.C. Liaw)
24. *On Russell-type modular equations*. The Canadian Journal of Mathematics, vol. 52 (2000), 31-46. (Joint work with W.C. Liaw)
25. *Incomplete elliptic integrals in Ramanujan's Lost Notebook*. Contemporary Mathematics (AMS) vol. 254 (2000), 79-126: Proceedings of a conference in honour of Professor Richard Askey. (Joint work with B.C. Berndt and S.S. Huang) [pdf](#)

26. *Eisenstein Series in Ramanujan's Lost Notebook.* The Ramanujan Journal, vol. 4, no. 1 (2000), 81-114. (Joint work with B.C. Berndt, J.B. Sohn and S.H. Son)
27. *A page on Eisenstein Series and approximations to  $\pi$  from Ramanujan's Lost Notebook.* Illinois J. Math., vol. 45, no.1 (2001), 75-90. (Joint work with B.C. Berndt) [pdf](#)
28. *On Ramanujan's quartic theory of elliptic functions.* J. Number Theory, vol. 88, no. 1, (2001), 129-156. (Joint work with B.C. Berndt and W.C. Liaw)
29. *Ramanujan's class invariant  $\lambda_n$  and a new class of series for  $1/\pi$ .* J. London Math. Soc., vol. 64, no.1, (2001), 93-106. (Joint work with W.C. Liaw and V. Tan)
30. *A certain quotient of eta-functions found in the Lost Notebook.* Pacific J. Math., vol. 202, no. 2, (2002), 267-304. (Joint work with B.C. Berndt, S.Y. Kang and L.C. Zhang)
31. *Ramanujan's elliptic functions to alternative bases and approximations to  $\pi$ ,* in Number Theory for the Millennium I (Proceedings of the Millennium Number Theory Conference, Champaign-Urbana, Illinois, May 2000), Bruce Berndt, et.al., editors, A.K. Peters Ltd, 2002. [pdf](#)
32. *New Ramanujan-Kolberg type identities,* (with H.Hahn, R.P. Lewis, S.L. Tan), Mathematical Research Letters, 9, 801-811, (2002).
33. *Two quadratic iterations to  $\pi$  associated with elliptic functions to alternative bases,* (with K.S. Chua and P. Solé) Trans. Amer. Math. Soc. 355 (2003), 1505-1520.
34. *Cubic Singular Moduli, Ramanujan's class invariant  $\lambda_n$  and the explicit Shimura Reciprocity Law.* Pacific J. Math., 208, no. 1, 23-37 (2003) (joint work with A. Gee and V. Tan).[pdf](#)
35. *A Quasi-theta Product in Ramanujan's Lost Notebook,* (joint work with B.C.Berndt and Alexandru Zaharescu), Math. Proc. Camb. Phil. Soc., 135, p. 11-18 (2003).
36. *Analogues of Jacobi's inversion formula for the incomplete elliptic integral of the first kind* (with Z.G. Liu), Advances in Mathematics, 174, 69-88 (2003). [pdf](#)
37. *7-modular lattices and a septic base Jacobi identity* (with K.S.Chua and P.Solé), J. Number Theory, vol. 99, 361-372, (2003).

38. *Representations of integers as sums of 32 squares*, (with K.S. Chua), The Ramanujan Journal, vol. 7, 79-90, (2003). [pdf](#)
39. *Partition identities and Congruences associated with the Fourier coefficients of the Euler products*, (with R.P.Lewis), Journal of Computational and Applied Math., 160 (2003) 69-75.
40. *Domb's numbers and Ramanujan-Sato type series for  $1/\pi$* , Advances in Math., 186 (2004) 396-410 (with S.H. Chan and Z.G. Liu).[pdf](#)
41. *Cranks and dissections in Ramanujan's Lost Notebook*, J. Combin. Theory Ser. A 109 (2005), no. 1, 91-120, (with B.C. Berndt, S.H. Chan and W.C. Liaw).[pdf](#)
42. *Ramanujan and cranks*, in Theory and applications of special functions, 77-98, Dev. Math., 13, Springer, New York, 2005, (with B.C. Berndt, S.H. Chan and W.C. Liaw).
43. *Recent progress in the study of the representations of integers as sums of squares*, (with Christian Krattenthaler), Bull. of the London Math. Soc. 37 (2005), 818-826.
44. *Elliptic functions and the Quintuple, Hirschhorn and Winqvist product identities*, (with Zhi-Guo Liu and Say Tiong Ng), International Journal of Number Theory 1 (2005), 33-43. [pdf](#)
45. *Circular summation of theta functions in Ramanujan's lost notebook.*, (with Zhi-Guo Liu and Say Tiong Ng), Journal of Mathematical Analysis and applications 316 (2006), 628-641.
46. *The 26<sup>th</sup> power of Dedekind's  $\eta$  function*, (with S. Cooper and Pee Choon Toh), Advances of Mathematics 207 (2006), 532-543.
47. *Elliptic functions to the quintic base*, (with Zhi-Guo Liu), Pacific Journal of Mathematics 226 (2006), no.1, 53-64. [pdf](#)
48. *Ramanujan's Eisenstein series and powers of Dedekind's eta-function*, (with S. Cooper and P.C. Toh), Journal of the London Mathematical Society, (2) 75 (2007), no. 1, 225-242. [pdf](#)
49. *Ramanujan's cubic continued fraction revisited*, (with Kok Ping Loo), Acta Arithmetica 126 (2007), no. 4, 305-313. [pdf](#)
50. *Triple product identity, quintuple product identity and Ramanujan's differential equations for the classical Eisenstein series*, Proc. of the Amer. Math. Soc., 135 (2007), no. 7, 1987-1992.

51. *The Rogers-Ramanujan continued fraction and a quintic iteration for  $1/\pi$*  (with Shaun Cooper and W.C. Liaw), Proc. of the Amer. Math. Soc., 135 (2007), no. 11, 3417-3424. [pdf](#)
52. *Powers of theta functions*, (with S. Cooper), Pacific J. Math. 235 (2008), no. 1, 1-14.
53. *Eisenstein series and theta functions to the septic base*, (with S. Cooper), J. Number Theory 128 (2008), no. 3, 680-699.
54. *A squares as a sum of odd number of odd squares* (with Shaun Cooper and Wen-Chin Liaw), Acta Arithmetica 132, no. 4 (2008), 359-371.
55. *On  $\eta^3(a\tau)\eta^3(b\tau)$  with  $a + b = 8$* , (with Shaun Cooper and Wen-Chin Liaw), J. Aust. Math. Soc., 84 (2008), 301-313. [pdf](#)
56. *The Almkvist-Zudilin numbers and new series for  $1/\pi$* . (with H.A. Verrill), Mathematical Research Letters, 16 (2009), no. 3, 405-420. [pdf](#)
57. *The Rogers-Ramanujan continued fraction and a new Eisenstein series identity*, (with S.H. Chan and Z.G. Liu), J. Number Theory, 129 (2009), 1786-1797. [pdf](#)
58. *Ramanujan's series for  $1/\pi$ : A survey*, (with N.D. Baruah and B.C. Berndt), Math. Student 2007, Special Centenary Volume, 1-24 (2008) AND Amer. Math. Monthly 116 (2009), no. 7, 567-587.
59. *Congruences satisfied by Apéry-like numbers*, (with S.Cooper and F.Sica), International J. of Number Theory, Volume: 6, Issue: 1(2010) pp. 89-97.
60. *New representations for Apéry-like sequences*, (with W. Zudilin), Mathematika, 56 (2010) , pp 107-117 [pdf](#)
61. *Supercongruences satisfied by coefficients of  ${}_2F_1$  hypergeometric series*, (with A. Kontogeorgis, C. Krattenthaler and R. Osburn), Annales des sciences mathématiques du Québec (special issue dedicated to P. Ribenboim), vol. 34, no.1, (2010), 25-36.
62. *A supercongruence motivated by the Legendre family of elliptic curves*, (with Ling Long, W. Zudilin), Mathematical Notes, vol 88, no. 4 (2010), 599-602. Also appeared in Russian in Matematicheskie Zemetki 2010, vol 88, no. 4, 620-624.
63. *New Ramanujan type partition identities*, (with Pee Choon Toh), Journal of Number Theory, vol. 130 (2010), 1898-1913.
64. *Cranks-really, the final problem*, (with B.C. Berndt, S.H. Chan, W.C. Liaw), to appear in the Ramanujan Journal. [pdf](#)

65. *The Cubic Analogue of the Jacobsthal sum*, (with Ling Long, YiFan Yang), to appear in Amer. Math. Monthly.
66. *New analogues of Clausen's identities arising from the theory of modular forms*, (with Y. Tanigawa, W. Zudilin and YiFan Yang), preprint.
67. *What is your birthday elliptic curves?* (with E. Konstantinou, A. Kontogeorgis, C. H. Tan), preprint.

## II. Articles (Local)

1. *I want to be a number theorist*, Math. Medley, vol. 26, no. 2, 1999, 91-92.
2. *The Arithmetic Geometric mean, hypergeometric series and  $\pi$* , Math. Medley, vol. 27, no. 1, 2000, p. 15-22.
3. *Primitive sixth root of unity and problem 6 of the 42nd IMO*, Math. Medley, vol. 30, no. 1, 2003, p. 38-42.
4. *On the  $q$ -binomial theorem*. (with S.H. Chan and S. Cooper), to appear in Math. Medley.

## III. Book

1. Analytic number theory for undergraduates, World Scientific Publishing Company.