

PUBLICATIONS of AE JA YEE

- Journal Articles

1. A note on partitions into distinct parts and odd parts (with D. Kim), *Ramanujan J.*, **3** (1999), 227–231.
2. On the combinatorics of lecture hall partitions, *Ramanujan J.*, **5** (2001), 247–262.
3. On the refined lecture hall theorem, *Discrete Math.*, **248** (2002) 293–298.
4. A combinatorial proof of Andrews’ partition functions related to Schur’s partition theorem, *Proceedings of the Amer. Math. Soc.*, **130** (2002), 2229–2235.
5. Formulas of Ramanujan for the power series coefficients of certain quotients of Eisenstein series (with B. C. Berndt and P. R. Bialek), *International Mathematics Research Notices*, **2002**, no. 21, 1077–1109.
6. Integrals of Eisenstein series, derivatives of L -functions, and the Dedekind eta-function (with S. Ahlgren, B. C. Berndt, and A. Zaharescu), *International Mathematics Research Notices*, **2002**, no. 32, 1723–1738.
7. Ramanujan’s contributions to Eisenstein series, especially in his lost notebook (with B. C. Berndt), in *Number Theoretic Methods - Future Trends*, C. Jia and S. Kanemitsu, eds., Kluwer, Dordrecht, 2002, pp. 31–53; abridged version, A survey on Eisenstein series in Ramanujan’s lost notebook (with B. C. Berndt), in *New Aspects of Analytic Number Theory*, Y. Tanigawa, ed., Research Institute for Mathematical Sciences, Kyoto University, Kyoto, 2002, pp. 130–141.
8. Congruences for the coefficients of quotients of Eisenstein series (with B. C. Berndt), *Acta Arithmetica*, **104** (2002), 297–308.
9. On Ramanujan’s continued fraction for $(q^2; q^3)_\infty / (q; q^3)_\infty$ (with G. E. Andrews, B. C. Berndt, J. Sohn, and A. Zaharescu), *Transactions of the Amer. Math. Soc.* **355** (2003), 2397–2411.
10. A page on Eisenstein series in Ramanujan’s lost notebook (with B. C. Berndt), *Glasgow Math. J.* **45** (2003), 123–129.
11. On the parity of partition functions (with B. C. Berndt and A. Zaharescu), *International J. of Mathematics*, **14** (2003), 437–459.
12. Combinatorial proofs of generating function identities for F-partitions, *J. Combin. Theory A*, **102** (2003), 217–228.
13. Theorems on partitions from a page in Ramanujan’s lost notebook (with B. C. Berndt and J. Yi), *J. Comp. Appl. Math.*, **160** (2003), 53–68.
14. On the generalized Rogers-Ramanujan continued fraction (with B. C. Berndt), *Ramanujan J.*, **7** (2003), 321–331.
15. Combinatorial proofs of identities in Ramanujan’s lost notebook associated with the Rogers–Fine identity and false theta functions (with B. C. Berndt), *Annals of Combinatorics*, **7** (2003), 409–423.
16. Combinatorial proofs of Ramanujan’s ${}_1\psi_1$ summation and the q -Gauss summation, *J. Combin. Theory A*, **105** (2004), 63–77.
17. New theorems on the parity of partition functions (with B. C. Berndt and A. Zaharescu), *J. Reine Angew. Math.*, **566** (2004), 91–109.
18. On partition functions of Andrews and Stanley, *J. Combin. Theory Ser. A*, **107** (2004), 313–321.
19. Partitions with difference conditions and Alder’s conjecture, *Proc. Natl. Acad. Sci. USA*, **101** (2004), no. 47, 16417–16418.

20. q -Gauss summation via Ramanujan and combinatorics (with B. C. Berndt), *South East Asian J. Math. and Math. Sci.*, **3** (2004), 15–22.
21. Overpartitions and generating functions for generalized Frobenius partitions (with S. Corteel and J. Lovejoy), *Mathematics and computer science. III*, 15–24, *Trends Math.*, Birkhäuser, Basel, 2004.
22. A new shuffle convolution for multiple zeta values, *J. Alg. Combin.*, **21** (2005), 55–69.
23. Continued fractions with three limit points (with G. E. Andrews, B. C. Berndt, J. Sohn, and A. Zaharescu), *Adv. Math.*, **192** (2005), 231–258.
24. A reciprocity theorem for certain q -series found in Ramanujan’s lost notebook (with B. C. Berndt, S. H. Chang, and B. P. Yeap), *Ramanujan J.*, **13** (2007), 27–37.
25. Ramanujan’s Forty Identities for the Rogers–Ramanujan Functions (with B. C. Berndt, G. Choi, Y. -S. Choi, H. Hahn, B. P. Yeap, H. Yesilyurt, and J. Yi), *the Memoirs of the AMS*, **188** (2007), 1–96.
26. Combinatorial proofs of identities in basic hypergeometric series, *European J. Combin.*, **29** (2008), 1365–1375.
27. Alder’s conjecture, *J. Reine Angew. Math.*, **616** (2008), 67–88.
28. Euler’s partition theorem and the combinatorics of ℓ -sequences (with C. D. Savage), *J. Combin. Theory Ser. A*, **115** (2008), 967–996.
29. Bijective proofs of a theorem of Fine and related partition identities, *Inter. J. Number Theory*, **5** (2009), 209–218.
30. MacMahon’s partition identity and the coin exchange problem, *J. Combin. Theory Ser. A*, **116** (2009), 1228–1231.
31. A bijective proof of a limiting case of Watson’s ${}_8\phi_7$ transformation formula (with M. Rowell), *Ramanujan J.*, **19** (2009), 267–280.
32. A combinatorial proof of the finite Heine transformation formula (with M. Rowell), *Integers: Electronic J. Combinatorial Number Theory*, **9** (2009), A50, 691–698.
33. Combinatorics of generalized q -Euler numbers (with T. Huber), *J. Combin. Theory Ser. A*, **117** (2010), 361–388.
34. Ramanujan’s lost notebook: Combinatorial proofs of identities associated with Heine’s transformation or partial theta functions (with B. C. Berndt and B. Kim), *J. Combin. Theory Ser. A*, **117** (2010), 957–973.
35. Ramanujan’s partial theta series and parity questions, *Ramanujan J.*, **23** (2010), 215–225.
36. Göllnitz-Gordon identities and parity questions (with S. Kim), *European J. Combin.*, **32** (2011), 288–293.
37. Alternating permutations and the m th descents (with K. Kursungoz), *Discrete Math.*, **311** (2011), 2610–2622.
38. Euler’s partition theorem with upper bounds on multiplicities (with W. Y. C. Chen and A. J. W. Zhu), *Electronic J. Combinatorics*, **19**(3) (2012), #P41.
39. Rogers–Ramanujan–Gordon Identities, Generalized Göllnitz-Gordon Identities, and parity questions (with S. Kim), *J. Combin. Theory Ser. A*, **120** (2013), 1038–1056.
40. Generalized higher order spt-functions (with A. Dixit), *Ramanujan J.*, **31** (2013), 191–212.
41. Partitions with difference conditions and Bressoud’s conjecture (with S. Kim), *J. Combin. Theory Ser. A*, **126** (2014), 35–69.
42. Truncated Jacobi Triple Product Theorem, *J. Combin. Theory Ser. A*, **130** (2015), 1–14.

43. Partitions associated with the Ramanujan/Watson mock theta functions $\omega(q), \nu(q)$ and $\phi(q)$ (with G. E. Andrews and A. Dixit), *Research in Number Theory* (2015) 1:19.
44. Legendre theorems for subclasses of overpartitions (with G. E. Andrews), *J. Combin. Theory Ser. A.*, **144** (2016), 16–36.
45. Arithmetic properties of the Ramanujan/Watson mock theta functions $\omega(q)$ and $\nu(q)$ (with G. E. Andrews, D. Passary, and J. Sellers), *Ramanujan J.*, **43** (2017), 347–357.
46. Overpartitions related to the mock theta function $\omega(q)$ (with G. E. Andrews, A. Dixit, and D. Schultz), *Acta Arithmetica*, **181** (2017), 253–286.
47. Overpartitions and singular overpartitions (with S. Seo), *Analytic number theory, modular forms and q -hypergeometric series*, 693–711, *Springer Proc. Math. Stat.*, 221, Springer, Cham, 2017.
48. Enumeration of partitions with prescribed successive rank parity blocks (with S. Seo), *J. Combin. Theory Ser. A*, **158** (2018), 12–35.
49. Overpartitions with bounded part differences (with S. Chern), *European J. Combin.*, **70** (2018), 317–324.
50. Combinatorial proofs of two truncated theta series theorems (with C. Ballantine, M. Merca, and D. Passary), *J. Combin. Theory Ser. A*, **160** (2018), 168–185.
51. Some identities associated with mock theta functions $\omega(q)$ and $\nu(q)$ (with G. E. Andrews), *Ramanujan J.* **48** (2019), 613–622.
52. Some Hecke-Rogers type identities (with L. Wang), *Adv. Math.*, **349** (2019), 733–748.
53. Truncated Jacobi’s triple product identity (with C. Wang), *J. Combin. Theory Ser. A*, **166** (2019), 382–392.
54. A truncated theta identity of Gauss and overpartitions into odd parts (with M. Merca and C. Wang), *Annals of Combinatorics*, **23** (2019), 907–915.
55. A lecture hall theorem for m -falling partitions (with S. Fu and D. Tang), *Ann. Comb.*, **23** (2019), 749–764.
56. Singular overpartitions and partitions with prescribed hook differences (with S. Seo), *Ann. Comb.* **23** (2019), 1309–1372.
57. Truncated Hecke-Rogers type identities (with C. Wang), *Adv. Math.*, **365** (2020).
58. Index of seaweed algebras and integer partitions (with S. Seo), *Electron. J. Combin.*, **27** (2020), no. 1, Paper No. 1.47, 10 pp.
59. Parity considerations in Rogers-Ramanujan-Gordon type overpartitions (with D. Sang and D. Shi), *J. Number Theory*, **215** (2020), 297–320.
60. On the sum of parts with multiplicity at least 2 in all the partitions of n (with M. Merca), *Int. J. Number Theory*, **17** (2021), no. 3, 665–681.
61. Truncated Hecke-Rogers type series II (with C. Wang), accepted in *Ramanujan J.*
62. Overpartition analogues for the generalized Rogers-Ramanujan identities (with S. Bandyopadhyay), *European J. Combin.*, **101** (2022) 103473.
63. New truncated theorems for three classical theta function identities (with E. Xia and X. Zhao), *European J. Combin.*, **101** (2022) 103470.

- Books Edited

1. *Combinatory Analysis* 2008. Held at Pennsylvania State University, University Park, PA, December 5–7, 2008, (with K. Alladi, P. Paule, and J. Sellers).

2. Combinatory Analysis 2018: in honor of George Andrews' 80th birthday. Held at Pennsylvania State University, PA, June 21–24, 2018, (with K. Alladi, B. Berndt, P. Paule, and J. Sellers).
3. TBA: in honor of Bruce Berndt' 80th birthday. Held at University of Illinois, IL, June 6–9, 2019, (with G. Andrews and M. Filaseta).

- Preprints

1. Combinatorial perspectives on partition crank and mex (with B. Hopkins and J. Sellers), submitted for publication.
2. Generating functions for certain weighted crank (with S. Bandyopadhyay), submitted for publication.
3. Diagonal hooks and a Schmidt-type partition identity (with S. Chern), submitted for publication.