

Publications

1. S. Das, W. Kuo and Y.-R. Liu, *Distribution of $\omega(n)$ over h -free and h -full numbers*, accepted by International Journal of Number Theory, 23 pages.
2. W. Kuo, Y.-R. Liu and Y. Totani, *A function field analogue of Jacob's theorem on sums of squares and its moments*, accepted by Canad. Math. Bull., 15 pages.
3. S. Das, W. Kuo and Y.-R. Liu, *On the number of irreducible factors with a given multiplicity over h -free and h -full numbers*, J. of Number Theory, 267 (2025), 176-201.
4. T. C. Anderson, B. Hu, Y.-R. Liu and A. Talmage, *Bounds on 10th moments of (x, x^3) for ellipsephic sets* AMS Contemporary Mathematics, 792 (2024), 125-132.
5. S. Das, E. Elma, W. Kuo and Y.-R. Liu, *On the number of irreducible factors with a given multiplicity in function fields*, Finite Fields Appl. 92 (2023), Page No. 102281, 22 pages.
6. J. C. Sounders and Y.-R. Liu, *Sieve Methods in Random Graph Theory*, Graphs and Combinatorics 39 (2023), Article number: 39, 22 pages.
7. E. Elma and Y.-R. Liu, *Number of prime factors with a given multiplicity*, Canad. Math. Bull., 65 (2022), 253-269.
8. W. Kuo, Y.-R. Liu, S. Ribas and K. Zhou, *The shifted Turán sieve method on tournaments II*, Discrete Mathematics, 344 (2021), Page No. 112602, 11 pages.
9. W. Kuo, Y.-R. Liu and X. Zhao, *The asymptotic estimates and Hasse principle for multidimensional Waring's problem*, Adv. Math. 353 (2019), 1-66.
10. W. Kuo, Y.-R. Liu, S. Ribas and K. Zhou, *The shifted Turán sieve method on tournaments*, Canad. Math. Bull. 62 (2019), 841-855.
11. A. Bhowmick, T. H. Lê and Y.-R. Liu, *A note on character sums in finite fields*, Finite Fields Appl. 46 (2017), 247-254.
12. Y.-R. Liu and C. Spencer, *A prime analogue of Roth's theorem in function fields*, Advances in the Theory of Number: Proceedings of the CNTA XIII (2015), 105-148.
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14. T. H. Lê and Y.-R. Liu, *On sets of polynomials whose difference set contain no squares*, Acta. Arith. 161 (2013), 127-143.
15. Y.-R. Liu and X. Zhao, *A generalization of Roth's theorem in function fields*, Michigan Math. J. 61 (2012), 839-866.
16. Y.-R. Liu, C. V. Spencer and X. Zhao, *A generalization of Meshulam's theorem on subsets of finite abelian groups with no 3-term arithmetic progression (II)*, European J. of Combin. 32 (2011), 258-264.
17. Y.-R. Liu and T. D. Wooley, *Waring's problem in function fields*, J. Reine Angew. Math., 638 (2010), 1-67.

18. Y.-R. Liu, C. V. Spencer and X. Zhao, *Roth's theorem on system of linear forms in function fields*, Acta. Arith., 142 (2010), 377-386.
19. W. Kuo and Y.-R. Liu, *Gaussian laws on Drinfeld modules*, Int. J. Number Theory 7 (2009), 1179–1203.
20. W. Kuo and Y.-R. Liu, *Cyclicity of finite Drinfeld modules*, J. London Math. Soc. 80 (2009), 567-584.
21. W. Kuo and Y.-R. Liu, *A Carlitz module analogue of a conjecture of Erdős and Pomerance*, Trans. Amer. Math. Soc. 361 (2009), 4519-4539.
22. Y.-R. Liu and C. V. Spencer, *A generalization of Roth's theorem in function fields*, Int. J. Number Theory 7 (2009), 1149-1154.
23. Y.-R. Liu and C. V. Spencer, *A generalization of Meshulam's theorem on subsets of finite abelian groups with no 3-term arithmetic progression*, Des. Codes Cryptogr. 52 (2009), 83-91.
24. W. Kuo and Y.-R. Liu, *The Erdős-Kac theorem and its generalizations*, The anatomy of integers, CRM Proceedings & Lecture Notes 46 (2008), 209-216.
25. Y.-R. Liu and T. D. Wooley, *The unrestricted variant of Waring's problem in function fields*, Funct. Approx. Comment. Math. 37 (2007), 285-292.
26. Y.-R. Liu, *Prime analogues of the Erdős-Kac theorem for elliptic curves*, J. Number Theory 119 (2006), 155-170.
27. Y.-R. Liu and M. R. Murty, *A weighted Turán sieve method*, J. Number Theory 116 (2006), 1-20.
28. Y.-R. Liu, *A prime analogue of Erdős-Pomerance's conjecture for elliptic curves*, Comment. Math. Helv. 80 (2005), 755-769.
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31. Y.-R. Liu, *A generalization of the Erdős-Kac theorem and its applications*, Canad. Math. Bull. 47 (2004), 589-606.
32. Y.-R. Liu, *A generalization of the Turán theorem and its applications*, Canad. Math. Bull. 47 (2004), 573-588.
33. Y.-R. Liu, *The Erdős theorem and the Halberstam theorem in function fields*, Acta Arith. 114 (2004), 323-330.
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