

BOOKS AND
MONOGRAPHS

1. M. Boij, J. Migliore, R. Mirò-Roig, U. Nagel, and F. Zanello: “On the shape of a pure O -sequence,” *Mem. Amer. Math. Soc.* **218** (2012), no. 1024, vii + 78 pp.. ISBN-10: 0-8218-6910-8; ISBN-13: 978-0-8218-6910-9

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1. F. Zanello: *I numeri di Fermat*, *Periodico di Matematiche*, VII, **5** (1998), no. 2-3, 63–68¹
2. F. Zanello: *Some observations on the statistical independence and the distribution of zeros in the Selberg Class*, *Rend. Circ. Mat. Palermo (2)*, **52** (2003), no. 2, 211–223
3. F. Zanello: *Extending the idea of compressed algebra to arbitrary socle-vectors*, *J. Algebra* **270** (2003), no. 1, 181–198
4. F. Zanello: *When are There Infinitely Many Irreducible Elements in a Principal Ideal Domain?*, *Amer. Math. Monthly* **111** (2004), no. 2, 150–152
5. F. Zanello: *Extending the idea of compressed algebra to arbitrary socle-vectors, II: cases of non-existence*, *J. Algebra* **275** (2004), no. 2, 730–748
6. F. Zanello: *Stanley’s theorem on codimension 3 Gorenstein h -vectors*, *Proc. Amer. Math. Soc.* **134** (2006), no. 1, 5–8
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13. F. Zanello: *The h -vector of a relatively compressed level algebra*, *Comm. Algebra* **35** (2007), no. 4, 1087–1091
14. M. Boij and F. Zanello: *Level Algebras with Bad Properties*, *Proc. Amer. Math. Soc.* **135** (2007), no. 9, 2713–2722
15. J. Migliore, U. Nagel, and F. Zanello: *An improved Multiplicity Conjecture for codimension three Gorenstein algebras*, *Comm. Algebra* **36** (2008), no. 1, 112–119
16. J. Migliore, U. Nagel, and F. Zanello: *A characterization of Gorenstein Hilbert functions in codimension four with small initial degree*, *Math. Res. Lett.* **15** (2008), no. 2, 331–349
17. J. Migliore, U. Nagel, and F. Zanello: *On the degree two entry of a Gorenstein h -vector and a conjecture of Stanley*, *Proc. Amer. Math. Soc.* **136** (2008), no. 8, 2755–2762
18. J. Migliore and F. Zanello: *The strength of the Weak Lefschetz Property*, *Illinois J. Math.* **52** (2008), no. 4, 1417–1433
19. J. Migliore, U. Nagel, and F. Zanello: *Bounds and asymptotic minimal growth for Gorenstein Hilbert functions*, *J. Algebra* **321** (2009), no. 5, 1510–1521
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¹Written as a senior high school student.

25. F. Zanello: *The KOH terms and classes of unimodal N -modular diagrams*, J. Combin. Theory Ser. A **118** (2011), no. 8, 2498–2510
26. R.P. Stanley and F. Zanello: *On the rank function of a differential poset*, Electron. J. Combin. **19** (2012), no. 2, P13, 17 pp.
27. C. Sandon and F. Zanello: *Warnaar’s bijection and colored partition identities, I*, J. Combin. Theory Ser. A **120** (2013), no. 1, 28–38²
28. T. Hà, E. Stokes, and F. Zanello: *Pure O -sequences and matroid h -vectors*, Ann. Comb. **17** (2013), no. 3, 495–508
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38. J. Migliore and F. Zanello: *Stanley’s nonunimodal Gorenstein h -vector is optimal*, Proc. Amer. Math. Soc. **145** (2017), no. 1, 1–9
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40. F. Zanello: *On Bergeron’s positivity problem for q -binomial coefficients*, Electron. J. Combin. **25** (2018), no. 2, Paper P2.17
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43. S.G. Park, R.P. Stanley, and F. Zanello: *Proof of the Gorenstein Interval Conjecture in low socle degree*, J. Algebra **523** (2019), 192–200
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45. R.P. Stanley and F. Zanello: *A generalization of a 1998 unimodality conjecture of Reiner and Stanton*, J. Combinatorics, to appear. Available on the [arXiv](#)

INVITED BOOK
CHAPTERS

1. J. Migliore, U. Nagel, and F. Zanello: *Pure O -sequences: known results, applications and open problems*, in: “Commutative Algebra. Expository Papers Dedicated to David Eisenbud on the Occasion of His 65th Birthday” (I. Peeva, Ed.), Springer New York-Heidelberg-Dordrecht-London, 715 pp. (2013)

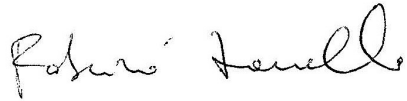
²Colin Sandon’s MIT senior research project, part I.

³Colin Sandon’s MIT senior research project, part II.

⁴Since October 2016, according to [MathSciNet](#), I am Richard Stanley’s coauthor with the single highest number of joint papers.

OTHER
PUBLICATIONS

1. F. Zanello: "La Classe di Selberg: distribuzione statistica e zeri delle combinazioni lineari," M.S. Thesis, University of Genova, Italy (2001)
2. F. Zanello: " H -vectors and socle-vectors of graded artinian algebras," Ph.D. Thesis, Queen's University at Kingston, Canada (2004)



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