

BOOKS AND
MONOGRAPHS

1. (with M. Boij, J. Migliore, R. Mirò-Roig and U. Nagel) “On the shape of a pure O -sequence”, Mem. Amer. Math. Soc., vii + 78 pages, to appear. Available on the [arXiv](#)

PUBLICATIONS IN
REFEREED
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1. *I numeri di Fermat*, Periodico di Matematiche, VII, **5** (1998), no. 2-3, 63-68
2. *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. *Extending the idea of compressed algebra to arbitrary socle-vectors*, J. Algebra **270** (2003), no. 1, 181-198
4. *When are There Infinitely Many Irreducible Elements in a Principal Ideal Domain?*, Amer. Math. Monthly **111** (2004), no. 2, 150-152
5. *Extending the idea of compressed algebra to arbitrary socle-vectors, II: cases of non-existence*, J. Algebra **275** (2004), no. 2, 730-748
6. *Stanley’s theorem on codimension 3 Gorenstein h -vectors*, Proc. Amer. Math. Soc. **134** (2006), no. 1, 5-8
7. *Level algebras of type 2*, Comm. Algebra **34** (2006), no. 2, 691-714
8. *When is there a unique socle-vector associated to a given h -vector?*, Comm. Algebra **34** (2006), no. 5, 1847-1860
9. *A non-unimodal codimension 3 level h -vector*, J. Algebra **305** (2006), no. 2, 949-956
10. *Improving the bounds of the Multiplicity Conjecture: the codimension 3 level case*, J. Pure Appl. Algebra **209** (2007), no. 1, 79-89
11. *Partial derivatives of a generic subspace of a vector space of forms: quotients of level algebras of arbitrary type*, Trans. Amer. Math. Soc. **359** (2007), no. 6, 2675-2686
12. (with J. Migliore) *The Hilbert functions which force the Weak Lefschetz Property*, J. Pure Appl. Algebra **210** (2007), no. 2, 465-471
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15. (with J. Migliore and U. Nagel) *An improved Multiplicity Conjecture for codimension three Gorenstein algebras*, Comm. Algebra **36** (2008), no. 1, 112-119
16. (with J. Migliore and U. Nagel) *A characterization of Gorenstein Hilbert functions in codimension four with small initial degree*, Math. Res. Lett. **15** (2008), no. 2, 331-349
17. (with J. Migliore and U. Nagel) *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. (with J. Migliore) *The strength of the Weak Lefschetz Property*, Illinois J. Math. **52** (2008), no. 4, 1417-1433
19. (with J. Migliore and U. Nagel) *Bounds and asymptotic minimal growth for Gorenstein Hilbert functions*, J. Algebra **321** (2009), no. 5, 1510-1521
20. (with J. Zylinski) *Forcing the Strong Lefschetz and the Maximal Rank Properties*, J. Pure Appl. Algebra **213** (2009), no. 6, 1026-1030
21. *Interval Conjectures for level Hilbert functions*, J. Algebra **321** (2009), no. 10, 2705-2715
22. (with M. Boij) *Some algebraic consequences of Green’s hyperplane restriction theorems*, J. Pure Appl. Algebra **214** (2010), no. 7, 1263-1270
23. (with A. Van Tuyl) *Simplicial complexes and Macaulay’s inverse systems*, Math. Z. **265** (2010), no. 1, 151-160

24. (with J. Li) *Monomial Complete Intersections, The Weak Lefschetz Property and Plane Partitions*, Discrete Math. **310** (2010), no. 24, 3558-3570
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PREPRINTS

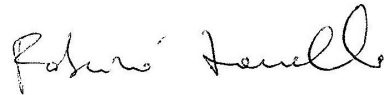
1. (with T. Hà and E. Stokes) *Pure O -sequences and matroid h -vectors*, preprint. Available on the [arXiv](#)
2. (with R.P. Stanley) *On the rank function of a differential poset*, preprint. Available on the [arXiv](#)
3. (with C. Sandon) *Warnaar's bijection and colored partition identities, I*, preprint. Available on the [arXiv](#)
4. (with C. Sandon) *Warnaar's bijection and colored partition identities, II*, preprint. Available on the [arXiv](#)

PAPERS IN
PREPARATION

1. (with M. Boij, J. Migliore, R. Mirò-Roig and U. Nagel) *Sharp bounds for level h -vectors*, in preparation
2. (with M. Boij, J. Migliore, R. Mirò-Roig and U. Nagel) *Flawlessness and the Lefschetz properties for level algebras*, in preparation
3. (with J. Migliore and U. Nagel) *Pure O -sequences: known results, applications, and open problems*, in preparation

OTHER
PUBLICATIONS

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



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