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García-García, J.I.; Moreno-Frías, M.A.; Vigneron-Tenorio, A. On the decomposable semigroups and applications. *Journal of Symbolic Computation* 58, 103–116 (2013). (ISSN: 0747-7171) arXiv: 1006.2557 [math.AC]

García-García, J.I.; Moreno-Frías, M.A.; Sánchez-R.-Navarro, A.; Vigneron-Tenorio, A. Affine convex body semigroups. *Semigroup Forum* 87 (2), 331-350 (2013). (ISSN: 0037-1912) arXiv: 1203.2129 [math.AC]

García-García, J.I.; Moreno-Frías, M.A.; Vigneron-Tenorio, A. Combinatorial properties and characterization of glued semigroups. *Abstract and Applied Analysis* vol. 2014, 1--8 (2014). <http://dx.doi.org/10.1155/2014/436417>. (ISSN: 1085-3375) arXiv: 1104.2835 [math.AC]

García-García, J.I.; Vigneron-Tenorio, A. Computing families of Cohen-Macaulay and Gorenstein rings. *Semigroup Forum* 88, no. 3, 610–620 (2014). (ISSN: 0037-1912) arXiv: 1304.5089 [math.AC]

García-García, J.I.; Moreno-Frías, M.A.; Vigneron-Tenorio, A. Computation of the w-primality and asymptotic w-primality with applications to numerical semigroups. *Israel Journal of Mathematics* 206, no. 1, 395–411 (2015). (ISSN: 0021-2172) arXiv: 1307.5807 [math.AC]

García-García, J.I.; Moreno-Frías, M.A.; Vigneron-Tenorio, A. Computation of Delta sets of numerical monoids. *Monatshefte für Mathematik*. Volume 178, Issue 3 457--472 (2015). <https://doi.org/10.1007/s00605-015-0785-9> arXiv: 1406.0280 [math.AC]

Ojeda, I.; Vigneron-Tenorio, A. The short resolution of a semigroup algebra. *Bulletin of the Australian Mathematical Society*. Volume 96 , Issue 3 400--411 (2017). <https://doi.org/10.1017/S0004972717000612>. (ISSN: 0004-9727) arXiv: 1512.00345 [math.RA]

García-García, J.I.; Moreno-Frías, M.A.; Vigneron-Tenorio, A. Proportionally modular affine semigroups. *Journal of Algebra and Its Applications*. Vol. 17, No. 1 (2018) 1850017 (17 pages). <http://dx.doi.org/10.1142/S0219498818500172> (ISSN: 0219-4988) arXiv: 1512.01513 [math.AC]

García-García, J.I.; Marín-Aragón, D.; Vigneron-Tenorio, A. An extension of Wilf's conjecture to affine semigroups. *Semigroup Forum* Vol. 96, Issue 2, 396-408 (2018). DOI: 10.1007/s00233-017-9906-1. (ISSN: 0037-1912). arXiv: 1608.08528 [math.NT]

García-García, J.I.; Sánchez-R.-Navarro, A.; Vigneron-Tenorio, A. Multiple Convex Body Semigroups and Buchsbaum Rings. To appear in Journal of Commutative Algebra. <https://projecteuclid.org/euclid.jca/1507276949#ui-tabs-1> arXiv: 1402.2597 [math.AC]

García-García, J.I.; Marín-Aragón, D.; Vigneron-Tenorio, A. A characterization of some families of Cohen--Macaulay, Gorenstein and/or Buchsbaum rings. To appear in Discrete Applied Mathematics. DOI: <https://doi.org/10.1016/j.dam.2018.03.021>. (ISSN: 0166-218X) arXiv: 1507.04536 [math.AC]

García-García, J.I.; Marín-Aragón, D.; Moreno-Frías, M.A.; Rosales, J.C.; Vigneron-Tenorio, A. Semigroups with fixed multiplicity and embedding dimension. arXiv: 1710.03523 [math.AC]

García-García, J.I.; Marín-Aragón, D.; Moreno-Frías, M.A.; Rosales, J.C.; Vigneron-Tenorio, A. Frobenius number and minimum genus of numerical semigroups with fixed multiplicity and embedding dimension. arXiv: 1712.05220 [math.AC]