

Rafael H Villarreal

List of Publications by Year in descending order

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345221

36
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89
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89
docs citations

89
times ranked

295
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Ideal Theory of Graphs. <i>Journal of Algebra</i> , 1994, 167, 389-416.	0.7	210
2	Cohen-macaulay graphs. <i>Manuscripta Mathematica</i> , 1990, 66, 277-293.	0.6	182
3	Rees algebras of edge ideals. <i>Communications in Algebra</i> , 1995, 23, 3513-3524.	0.6	108
4	The Integral Closure of Subrings Associated to Graphs. <i>Journal of Algebra</i> , 1998, 199, 281-289.	0.7	64
5	Edge Ideals: Algebraic and Combinatorial Properties. , 2012, , 85-126.		64
6	Shellable graphs and sequentially Cohen-Macaulay bipartite graphs. <i>Journal of Combinatorial Theory - Series A</i> , 2008, 115, 799-814.	0.8	61
7	Monomial Algebras. <i>Pure and Applied Mathematics</i> , 2000, , .	0.0	59
8	Associated primes of powers of edge ideals. <i>Collectanea Mathematica</i> , 2012, 63, 361-374.	0.9	56
9	Ring graphs and complete intersection toric ideals. <i>Discrete Mathematics</i> , 2010, 310, 430-441.	0.7	43
10	Algebraic methods for parameterized codes and invariants of vanishing ideals over finite fields. <i>Finite Fields and Their Applications</i> , 2011, 17, 81-104.	1.0	43
11	Affine cartesian codes. <i>Designs, Codes, and Cryptography</i> , 2014, 71, 5-19.	1.6	43
12	Minimum distance functions of graded ideals and Reed-Muller-type codes. <i>Journal of Pure and Applied Algebra</i> , 2017, 221, 251-275.	0.6	34
13	The minimum distance of parameterized codes on projective tori. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2011, 22, 249-264.	0.5	33
14	ON THE NORMALITY OF MONOMIAL IDEALS OF MIXED PRODUCTS. <i>Communications in Algebra</i> , 2001, 29, 3571-3580.	0.6	30
15	Blowup Algebras of Square-Free Monomial Ideals and Some Links to Combinatorial Optimization Problems. <i>Rocky Mountain Journal of Mathematics</i> , 2009, 39, .	0.4	29
16	Cohen-Macaulay, shellable and unmixed clutterers with a perfect matching of König type. <i>Journal of Pure and Applied Algebra</i> , 2008, 212, 1770-1786.	0.6	28
17	Cohen-macaulay bipartite graphs. <i>Archiv Der Mathematik</i> , 1997, 68, 124-128.	0.5	23
18	Generic Gaussian ideals. <i>Journal of Pure and Applied Algebra</i> , 1998, 125, 117-127.	0.6	21

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19	On the equations of the edge cone of a graph and some applications. <i>Manuscripta Mathematica</i> , 1998, 97, 309-317.	0.6	20
20	Normality of subrings generated by square free monomials. <i>Journal of Pure and Applied Algebra</i> , 1996, 113, 91-106.	0.6	19
21	Constraints for the normality of monomial subrings and birationality. <i>Proceedings of the American Mathematical Society</i> , 2002, 131, 2043-2048.	0.8	18
22	On systems of binomials in the ideal of a toric variety. <i>Proceedings of the American Mathematical Society</i> , 2001, 130, 345-351.	0.8	17
23	Torsion freeness and normality of blowup rings of monomial ideals. <i>Lecture Notes in Pure and Applied Mathematics</i> , 2005, , 69-84.	0.1	17
24	Rees algebras and polyhedral cones of ideals of vertex covers of perfect graphs. <i>Journal of Algebraic Combinatorics</i> , 2008, 27, 293-305.	0.8	16
25	Degree and Algebraic Properties of Lattice and Matrix Ideals. <i>SIAM Journal on Discrete Mathematics</i> , 2014, 28, 394-427.	0.8	16
26	Edge ideals of oriented graphs. <i>International Journal of Algebra and Computation</i> , 2019, 29, 535-559.	0.5	16
27	Relative volumes and minors in monomial subrings. <i>Linear Algebra and Its Applications</i> , 2003, 374, 275-290.	0.9	15
28	Rees cones and monomial rings of matroids. <i>Linear Algebra and Its Applications</i> , 2008, 428, 2933-2940.	0.9	14
29	Degree bounds in monomial subrings. <i>Illinois Journal of Mathematics</i> , 1997, 41, .	0.1	14
30	A note on affine toric varieties. <i>Linear Algebra and Its Applications</i> , 2000, 318, 173-179.	0.9	12
31	Generalized minimum distance functions and algebraic invariants of Geramita ideals. <i>Advances in Applied Mathematics</i> , 2020, 112, 101940.	0.7	12
32	Canonical modules of certain edge subrings. <i>European Journal of Combinatorics</i> , 2003, 24, 471-487.	0.8	11
33	Combinatorics of Cremona monomial maps. <i>Mathematics of Computation</i> , 2012, 81, 1857-1867.	2.1	11
34	Regularity and algebraic properties of certain lattice ideals. <i>Bulletin of the Brazilian Mathematical Society</i> , 2014, 45, 777-806.	0.8	11
35	Vanishing Ideals Over Graphs and Even Cycles. <i>Communications in Algebra</i> , 2015, 43, 1050-1075.	0.6	11
36	Cohen-Macaulay admissible clutters. <i>Journal of Commutative Algebra</i> , 2009, 1, .	0.3	11

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37	Critical binomials of monomial curves. <i>Communications in Algebra</i> , 1994, 22, 3037-3052.	0.6	10
38	A note on the Rees algebra of a bipartite graph. <i>Journal of Pure and Applied Algebra</i> , 2005, 201, 17-24.	0.6	10
39	Ring graphs and toric ideals. <i>Electronic Notes in Discrete Mathematics</i> , 2007, 28, 393-400.	0.4	10
40	Algebraic and combinatorial properties of ideals and Algebras of uniform clutters of TDI systems. <i>Journal of Combinatorial Optimization</i> , 2011, 21, 269-292.	1.3	10
41	Generalized minimum distance functions. <i>Journal of Algebraic Combinatorics</i> , 2019, 50, 317-346.	0.8	10
42	The Degree and Regularity of Vanishing Ideals of Algebraic Toric Sets Over Finite Fields. <i>Communications in Algebra</i> , 2013, 41, 3376-3396.	0.6	9
43	Symbolic Powers of Monomial Ideals and Cohen-Macaulay Vertex-Weighted Digraphs. , 2018, , 491-510.		9
44	On Gorenstein ideals of codimension four. <i>Proceedings of the American Mathematical Society</i> , 1986, 98, 205-205.	0.8	9
45	Linear syzygies and birational combinatorics. <i>Resultate Der Mathematik</i> , 2005, 48, 326-343.	0.2	8
46	ON THE VANISHING IDEAL OF AN ALGEBRAIC TORIC SET AND ITS PARAMETRIZED LINEAR CODES. <i>Journal of Algebra and Its Applications</i> , 2012, 11, 1250072.	0.4	8
47	Minimum distance functions of complete intersections. <i>Journal of Algebra and Its Applications</i> , 2018, 17, 1850204.	0.4	8
48	The second generalized Hamming weight of some evaluation codes arising from a projective torus. <i>Finite Fields and Their Applications</i> , 2018, 52, 370-394.	1.0	8
49	Depth and Regularity of Monomial Ideals via Polarization and Combinatorial Optimization. <i>Acta Mathematica Vietnamica</i> , 2019, 44, 243-268.	0.4	8
50	The dual of an evaluation code. <i>Designs, Codes, and Cryptography</i> , 2021, 89, 1367-1403.	1.6	8
51	Explicit representations of the edge cone of a graph. <i>International Journal of Contemporary Mathematical Sciences</i> , 0, , 53-66.	0.3	8
52	Edge ideals of clique clutters of comparability graphs and the normality of monomial ideals. <i>Mathematica Scandinavica</i> , 2010, 106, 88.	0.2	8
53	Toric Ideals Generated by Circuits. <i>Algebra Colloquium</i> , 2012, 19, 665-672.	0.2	7
54	Parameterized affine codes. <i>Studia Scientiarum Mathematicarum Hungarica</i> , 2012, 49, 406-418.	0.1	7

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55	Linear codes over signed graphs. <i>Designs, Codes, and Cryptography</i> , 2020, 88, 273-296.	1.6	7
56	Evaluation codes and their basic parameters. <i>Designs, Codes, and Cryptography</i> , 2021, 89, 269-300.	1.6	7
57	Complete intersection vanishing ideals on degenerate tori over finite fields. <i>Arabian Journal of Mathematics</i> , 2013, 2, 189-197.	0.9	6
58	COMPLETE INTERSECTIONS IN BINOMIAL AND LATTICE IDEALS. <i>International Journal of Algebra and Computation</i> , 2013, 23, 1419-1429.	0.5	6
59	Computing the degree of a lattice ideal of dimension one. <i>Journal of Symbolic Computation</i> , 2014, 65, 15-28.	0.8	6
60	The v-number of edge ideals. <i>Journal of Combinatorial Theory - Series A</i> , 2021, 177, 105310.	0.8	6
61	Ehrhart Clutters: Regularity and Max-Flow Min-Cut. <i>Electronic Journal of Combinatorics</i> , 2010, 17, .	0.4	6
62	Rees algebras and Koszul homology. <i>Journal of Algebra</i> , 1988, 119, 83-104.	0.7	5
63	A note on generators of least degree in Gorenstein ideals. <i>Proceedings of the American Mathematical Society</i> , 1996, 124, 377-382.	0.8	5
64	On the normality of Rees algebras associated to totally unimodular matrices. <i>Resultate Der Mathematik</i> , 2002, 41, 258-264.	0.2	5
65	Cohen-Macaulay clutters with combinatorial optimization properties and parallelizations of normal edge ideals. <i>Sao Paulo Journal of Mathematical Sciences</i> , 2009, 3, 61.	0.4	5
66	Normality of semigroups with some links to graph theory. <i>Discrete Mathematics</i> , 2005, 302, 267-284.	0.7	4
67	Systems with the integer rounding property in normal monomial subrings. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010, 82, 801-811.	0.8	4
68	On complete monomial ideals. <i>Journal of Commutative Algebra</i> , 2016, 8, .	0.3	4
69	Induced Matchings and the v-Number of Graded Ideals. <i>Mathematics</i> , 2021, 9, 2860.	2.2	4
70	Rees algebras of filtrations of covering polyhedra and integral closure of powers of monomial ideals. <i>Research in Mathematical Sciences</i> , 2022, 9, 1.	1.0	4
71	Koszul Homology of Cohen-Macaulay Rings with Linear Resolutions. <i>Proceedings of the American Mathematical Society</i> , 1992, 115, 51.	0.8	3
72	Koszul homology of Cohen-Macaulay rings with linear resolutions. <i>Proceedings of the American Mathematical Society</i> , 1992, 115, 51-58.	0.8	3

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73	The dual of a constacyclic code, self dual, reversible constacyclic codes and constacyclic codes with complementary duals over finite local Frobenius non-chain rings with nilpotency index 3. <i>Discrete Mathematics</i> , 2019, 342, 2283-2296.	0.7	3
74	Generalized Hamming weights of projective Reed-Muller-type codes over graphs. <i>Discrete Mathematics</i> , 2020, 343, 111639.	0.7	3
75	Joins, ears and Castelnuovo-Mumford regularity. <i>Journal of Algebra</i> , 2020, 560, 67-88.	0.7	3
76	Direct products in projective Segre codes. <i>Finite Fields and Their Applications</i> , 2016, 39, 96-110.	1.0	2
77	Vanishing Ideals over Finite Fields. <i>Mathematical Notes</i> , 2019, 105, 429-438.	0.4	2
78	Rees algebras of complete bipartite graphs.. <i>Matematica Contemporanea</i> , 1999, 16, .	0.0	2
79	Normalization of monomial ideals and Hilbert functions. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 1933-1943.	0.8	1
80	Indices of normalization of ideals. <i>Journal of Pure and Applied Algebra</i> , 2019, 223, 3681-3694.	0.6	1
81	Unmixed and Cohen-Macaulay Weighted Oriented K�nig Graphs. <i>Studia Scientiarum Mathematicarum Hungarica</i> , 2021, 58, 276-292.	0.1	1
82	Regularity of the vanishing ideal over a parallel composition of paths. <i>Journal of Commutative Algebra</i> , 2020, 12, .	0.3	1
83	Binomial vanishing ideals. <i>Journal of Algebra Combinatorics Discrete Structures and Applications</i> , 2015, 2, .	0.3	1
84	Bounds for the minimum distance function. <i>Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica</i> , 2021, 29, 229-242.	0.3	1
85	Monomial algebras and polyhedral geometry. <i>Handbook of Algebra</i> , 2003, , 257-314.	0.4	0
86	Complete Intersection Vanishing Ideals on Sets of Clutter Type over Finite Fields. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2018, 41, 81-89.	0.9	0
87	On the generalized Hamming weights of certain Reed-Muller-type codes. <i>Analele Stiintifice Ale Universitatii Ovidius Constanta, Seria Matematica</i> , 2020, 28, 205-217.	0.3	0