Alicia Dickenstein

List of Publications by Year
in descending order

55 papers	1,151 citations	430874 18 h-index	395702 33 g-index
59 all docs	59 docs citations	59 times ranked	370 citing authors

#	Article	IF	Citations
1	Nonlinear Algebra. Vietnam Journal of Mathematics, 2022, 50, 319.	0.8	0
2	Families of Polynomials in the Study of Biochemical Reaction Networks. Lecture Notes in Computer Science, 2021, , 1-5.	1.3	0
3	Optimal Descartes' rule of signs for systems supported on circuits. Mathematische Annalen, 2021, 381, 1283.	1.4	3
4	The Simplest Minimal Free Resolutions in $$\mathbb {P}^1 \times \mathbb {P}^1$$. , 2021, , 113-145.		0
5	Lower bounds for positive roots and regions of multistationarity in chemical reaction networks. Journal of Algebra, 2020, 542, 367-411.	0.7	14
6	Sign conditions for the existence of at least one positive solution of a sparse polynomial system. Advances in Mathematics, 2020, 375, 107412.	1.1	3
7	Positive solutions of sparse polynomial systems. , 2020, , .		0
8	Multistationarity in Structured Reaction Networks. Bulletin of Mathematical Biology, 2019, 81, 1527-1581.	1.9	37
9	Regions of multistationarity in cascades of Goldbeter–Koshland loops. Journal of Mathematical Biology, 2019, 78, 1115-1145.	1.9	16
10	Algebra and Geometry in the Study of Enzymatic Cascades. Association for Women in Mathematics Series, 2019, , 57-81.	0.4	1
11	Parameter regions that give rise to $2 \lfloor \frac{n}{2}\rfloor +1$ positive steady states in the n-site phosphorylation system. Mathematical Biosciences and Engineering, 2019, 16, 7589-7615.	1.9	9
12	The Structure of MESSI Biological Systems. SIAM Journal on Applied Dynamical Systems, 2018, 17, 1650-1682.	1.6	40
13	Higher order selfdual toric varieties. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1759-1777.	1.0	2
14	Arithmetics and combinatorics of tropical Severi varieties of univariate polynomials. Israel Journal of Mathematics, 2017, 221, 741-777.	0.8	3
15	Sign Conditions for Injectivity of Generalized Polynomial Maps with Applications to Chemical Reaction Networks and Real Algebraic Geometry. Foundations of Computational Mathematics, 2016, 16, 69-97.	2.5	79
16	Implicitization of rational hypersurfaces via linear syzygies: A practical overview. Journal of Symbolic Computation, 2016, 74, 493-512.	0.8	17
17	Implicit dose-response curves. Journal of Mathematical Biology, 2015, 70, 1669-1684.	1.9	4
18	Higher order duality and toric embeddings. Annales De L'Institut Fourier, 2014, 64, 375-400.	0.6	7

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19	Mixed discriminants. Mathematische Zeitschrift, 2013, 274, 761-778.	0.9	25
20	INDEPENDENT SETS FROM AN ALGEBRAIC PERSPECTIVE. International Journal of Algebra and Computation, 2012, 22, 1250014.	0.5	3
21	Complex-linear invariants of biochemical networks. Journal of Theoretical Biology, 2012, 311, 130-138.	1.7	44
22	A relation between number of integral points, volumes of faces and degree of the discriminant of smooth lattice polytopes. Comptes Rendus Mathematique, 2012, 350, 229-233.	0.3	1
23	Nilsson solutions for irregular A-hypergeometric systems. Revista Matematica Iberoamericana, 2012, 28, 723-758.	0.9	6
24	Chemical Reaction Systems with Toric Steady States. Bulletin of Mathematical Biology, 2012, 74, 1027-1065.	1.9	101
25	Singular Tropical Hypersurfaces. Discrete and Computational Geometry, 2012, 47, 430-453.	0.6	8
26	How Far is Complex Balancing from Detailed Balancing?. Bulletin of Mathematical Biology, 2011, 73, 811-828.	1.9	30
27	Self-dual projective toric varieties. Journal of the London Mathematical Society, 2011, 84, 514-540.	1.0	7
28	Binomial D-modules. Duke Mathematical Journal, 2010, 151, .	1.5	20
29	Combinatorics of binomial primary decomposition. Mathematische Zeitschrift, 2010, 264, 745-763.	0.9	23
30	Additive edge labelings. Discrete Applied Mathematics, 2010, 158, 444-452.	0.9	0
31	A simple combinatorial criterion for projective toric manifolds with dual defect. Mathematical Research Letters, 2010, 17, 435-448.	0.5	16
32	Classifying smooth lattice polytopes via toric fibrations. Advances in Mathematics, 2009, 222, 240-254.	1.1	21
33	Toric dynamical systems. Journal of Symbolic Computation, 2009, 44, 1551-1565.	0.8	160
34	Matrix representations for toric parametrizations. Computer Aided Geometric Design, 2009, 26, 757-771.	1.2	19
35	Tropical discriminants. Journal of the American Mathematical Society, 2007, 20, 1111-1133.	3.9	82
36	Counting solutions to binomial complete intersections. Journal of Complexity, 2007, 23, 82-107.	1.3	10

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37	Complete intersections in toric ideals. Proceedings of the American Mathematical Society, 2007, 135, 329-335.	0.8	6
38	Bivariate hypergeometric D-modules. Advances in Mathematics, 2005, 196, 78-123.	1.1	18
39	Codimension theorems for complete toric varieties. Proceedings of the American Mathematical Society, 2005, 133, 3153-3162.	0.8	5
40	Planar Configurations of Lattice Vectors and GKZ-Rational Toric Fourfolds in Bbb P6. Journal of Algebraic Combinatorics, 2004, 19, 47-65.	0.8	5
41	Multihomogeneous resultant formulae by means of complexes. Journal of Symbolic Computation, 2003, 36, 317-342.	0.8	46
42	Multihomogeneous resultant matrices. , 2002, , .		5
43	Elimination Theory in Codimension 2. Journal of Symbolic Computation, 2002, 34, 119-135.	0.8	22
44	Binomial residues. Annales De L'Institut Fourier, 2002, 52, 687-708.	0.6	3
45	Explicit formulas for the multivariate resultant. Journal of Pure and Applied Algebra, 2001, 164, 59-86.	0.6	55
46	Rational Hypergeometric Functions. Compositio Mathematica, 2001, 128, 217-240.	0.8	25
47	Integrating singular functions on the sphere. Journal of Mathematical Physics, 1997, 38, 5361-5370.	1.1	1
48	Residues in toric varieties. Compositio Mathematica, 1997, 108, 35-76.	0.8	30
49	Analytic functionals annihilated by ideals. Manuscripta Mathematica, 1996, 90, 175-223.	0.6	11
50	The membership problem for unmixed polynomial ideals is solvable in single exponential time. Discrete Applied Mathematics, 1991, 33, 73-94.	0.9	61
51	An effective residual criterion for the membership problem in C[$z1,…,zn$]. Journal of Pure and Applied Algebra, 1991, 74, 149-158.	0.6	11
52	On the global lifting of meromorphic forms. Manuscripta Mathematica, 1984, 47, 31-54.	0.6	3
53	An integral criterion for the equivalence of plane curves. Manuscripta Mathematica, 1982, 37, 1-9.	0.6	2
54	Descartes' Rule of Signs for Polynomial Systems Supported on Circuits. International Mathematics Research Notices, 0, , rnw199.	1.0	9

#	ARTICLE	IF	CITATIONS
55	Non-splitting Flags, Iterated Circuits, $\underline{\mathbf{\sigma}}$-Matrices and Cayley Configurations. Vietnam Journal of Mathematics, 0, , 1.	0.8	0