

Alicia Dickenstein

List of Publications by Year in descending order

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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	Toric dynamical systems. <i>Journal of Symbolic Computation</i> , 2009, 44, 1551-1565.	0.8	160
2	Chemical Reaction Systems with Toric Steady States. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 1027-1065.	1.9	101
3	Tropical discriminants. <i>Journal of the American Mathematical Society</i> , 2007, 20, 1111-1133.	3.9	82
4	Sign Conditions for Injectivity of Generalized Polynomial Maps with Applications to Chemical Reaction Networks and Real Algebraic Geometry. <i>Foundations of Computational Mathematics</i> , 2016, 16, 69-97.	2.5	79
5	The membership problem for unmixed polynomial ideals is solvable in single exponential time. <i>Discrete Applied Mathematics</i> , 1991, 33, 73-94.	0.9	61
6	Explicit formulas for the multivariate resultant. <i>Journal of Pure and Applied Algebra</i> , 2001, 164, 59-86.	0.6	55
7	Multihomogeneous resultant formulae by means of complexes. <i>Journal of Symbolic Computation</i> , 2003, 36, 317-342.	0.8	46
8	Complex-linear invariants of biochemical networks. <i>Journal of Theoretical Biology</i> , 2012, 311, 130-138.	1.7	44
9	The Structure of MESSI Biological Systems. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 1650-1682.	1.6	40
10	Multistationarity in Structured Reaction Networks. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 1527-1581.	1.9	37
11	Residues in toric varieties. <i>Compositio Mathematica</i> , 1997, 108, 35-76.	0.8	30
12	How Far is Complex Balancing from Detailed Balancing?. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 811-828.	1.9	30
13	Rational Hypergeometric Functions. <i>Compositio Mathematica</i> , 2001, 128, 217-240.	0.8	25
14	Mixed discriminants. <i>Mathematische Zeitschrift</i> , 2013, 274, 761-778.	0.9	25
15	Combinatorics of binomial primary decomposition. <i>Mathematische Zeitschrift</i> , 2010, 264, 745-763.	0.9	23
16	Elimination Theory in Codimension 2. <i>Journal of Symbolic Computation</i> , 2002, 34, 119-135.	0.8	22
17	Classifying smooth lattice polytopes via toric fibrations. <i>Advances in Mathematics</i> , 2009, 222, 240-254.	1.1	21
18	Binomial D-modules. <i>Duke Mathematical Journal</i> , 2010, 151, .	1.5	20

#	ARTICLE	IF	CITATIONS
19	Matrix representations for toric parametrizations. <i>Computer Aided Geometric Design</i> , 2009, 26, 757-771.	1.2	19
20	Bivariate hypergeometric D-modules. <i>Advances in Mathematics</i> , 2005, 196, 78-123.	1.1	18
21	Implicitization of rational hypersurfaces via linear syzygies: A practical overview. <i>Journal of Symbolic Computation</i> , 2016, 74, 493-512.	0.8	17
22	Regions of multistationarity in cascades of Goldbeter-Koshland loops. <i>Journal of Mathematical Biology</i> , 2019, 78, 1115-1145.	1.9	16
23	A simple combinatorial criterion for projective toric manifolds with dual defect. <i>Mathematical Research Letters</i> , 2010, 17, 435-448.	0.5	16
24	Lower bounds for positive roots and regions of multistationarity in chemical reaction networks. <i>Journal of Algebra</i> , 2020, 542, 367-411.	0.7	14
25	An effective residual criterion for the membership problem in $C[z_1, \dots, z_n]$. <i>Journal of Pure and Applied Algebra</i> , 1991, 74, 149-158.	0.6	11
26	Analytic functionals annihilated by ideals. <i>Manuscripta Mathematica</i> , 1996, 90, 175-223.	0.6	11
27	Counting solutions to binomial complete intersections. <i>Journal of Complexity</i> , 2007, 23, 82-107.	1.3	10
28	Descartes's Rule of Signs for Polynomial Systems Supported on Circuits. <i>International Mathematics Research Notices</i> , 0, , rnw199.	1.0	9
29	Parameter regions that give rise to $\lfloor \frac{n}{2} \rfloor + 1$ positive steady states in the n -site phosphorylation system. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 7589-7615.	1.9	9
30	Singular Tropical Hypersurfaces. <i>Discrete and Computational Geometry</i> , 2012, 47, 430-453.	0.6	8
31	Self-dual projective toric varieties. <i>Journal of the London Mathematical Society</i> , 2011, 84, 514-540.	1.0	7
32	Higher order duality and toric embeddings. <i>Annales De L'Institut Fourier</i> , 2014, 64, 375-400.	0.6	7
33	Nilsson solutions for irregular A -hypergeometric systems. <i>Revista Matematica Iberoamericana</i> , 2012, 28, 723-758.	0.9	6
34	Complete intersections in toric ideals. <i>Proceedings of the American Mathematical Society</i> , 2007, 135, 329-335.	0.8	6
35	Multihomogeneous resultant matrices. , 2002, , .		5
36	Planar Configurations of Lattice Vectors and GKZ-Rational Toric Fourfolds in \mathbb{P}^6 . <i>Journal of Algebraic Combinatorics</i> , 2004, 19, 47-65.	0.8	5

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37	Codimension theorems for complete toric varieties. Proceedings of the American Mathematical Society, 2005, 133, 3153-3162.	0.8	5
38	Implicit dose-response curves. Journal of Mathematical Biology, 2015, 70, 1669-1684.	1.9	4
39	On the global lifting of meromorphic forms. Manuscripta Mathematica, 1984, 47, 31-54.	0.6	3
40	INDEPENDENT SETS FROM AN ALGEBRAIC PERSPECTIVE. International Journal of Algebra and Computation, 2012, 22, 1250014.	0.5	3
41	Arithmetics and combinatorics of tropical Severi varieties of univariate polynomials. Israel Journal of Mathematics, 2017, 221, 741-777.	0.8	3
42	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
43	Optimal Descartes's rule of signs for systems supported on circuits. Mathematische Annalen, 2021, 381, 1283.	1.4	3
44	Binomial residues. Annales De L'Institut Fourier, 2002, 52, 687-708.	0.6	3
45	An integral criterion for the equivalence of plane curves. Manuscripta Mathematica, 1982, 37, 1-9.	0.6	2
46	Higher order selfdual toric varieties. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1759-1777.	1.0	2
47	Integrating singular functions on the sphere. Journal of Mathematical Physics, 1997, 38, 5361-5370.	1.1	1
48	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
49	Algebra and Geometry in the Study of Enzymatic Cascades. Association for Women in Mathematics Series, 2019, , 57-81.	0.4	1
50	Additive edge labelings. Discrete Applied Mathematics, 2010, 158, 444-452.	0.9	0
51	Families of Polynomials in the Study of Biochemical Reaction Networks. Lecture Notes in Computer Science, 2021, , 1-5.	1.3	0
52	Positive solutions of sparse polynomial systems. , 2020, , .		0
53	The Simplest Minimal Free Resolutions in $\mathbb{P}^1 \times \mathbb{P}^1$. , 2021, , 113-145.		0
54	Nonlinear Algebra. Vietnam Journal of Mathematics, 2022, 50, 319.	0.8	0

#	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