Bernd Sturmfels

List of Publications by Year in descending order

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279798 233421 2,433 67 23 45 citations h-index g-index papers 73 73 73 1084 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Linear PDE with constant coefficients. Glasgow Mathematical Journal, 2023, 65, S2-S27.	0.3	5
2	Voronoi cells of varieties. Journal of Symbolic Computation, 2022, 109, 351-366.	0.8	4
3	Orders and polytropes: matrix algebras from valuations. Beitrage Zur Algebra Und Geometrie, 2022, 63, 515-531.	0.5	2
4	Wasserstein distance to independence models. Journal of Symbolic Computation, 2021, 104, 855-873.	0.8	25
5	Theta Surfaces. Vietnam Journal of Mathematics, 2021, 49, 319-347.	0.8	4
6	Primary Ideals and Their Differential Equations. Foundations of Computational Mathematics, 2021, 21, 1363.	2.5	10
7	Bad projections of the PSD cone. Collectanea Mathematica, 2021, 72, 261-280.	0.9	2
8	The Dubrovin threefold of an algebraic curve. Nonlinearity, 2021, 34, 3783-3812.	1.4	4
9	The geometry of SDP-exactness in quadratic optimization. Mathematical Programming, 2020, 182, 399-428.	2.4	7
10	The SchlÃfli Fan. Discrete and Computational Geometry, 2020, 64, 355-381.	0.6	4
11	Maximum likelihood estimation for totally positive logâ€concave densities. Scandinavian Journal of Statistics, 2020, 48, 817.	1.4	3
12	VARIETIES OF SIGNATURE TENSORS. Forum of Mathematics, Sigma, 2019, 7, .	0.7	9
13	Geometry of Log-Concave Density Estimation. Discrete and Computational Geometry, 2019, 61, 136-160.	0.6	4
14	Learning Paths from Signature Tensors. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 394-416.	1.4	10
15	The Geometry of Gaussoids. Foundations of Computational Mathematics, 2019, 19, 775-812.	2.5	8
16	Sixty-Four Curves of Degree Six. Experimental Mathematics, 2019, 28, 132-150.	0.7	5
17	Changing Views on Curves and Surfaces. Acta Mathematica Vietnamica, 2018, 43, 1-29.	0.4	2
18	Distortion Varieties. Foundations of Computational Mathematics, 2018, 18, 1043-1071.	2.5	6

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19	Learning algebraic varieties from samples. Revista Matematica Complutense, 2018, 31, 545-593.	1.2	32
20	Algebraic Identifiability of Gaussian Mixtures. International Mathematics Research Notices, 2018, 2018, 6556-6580.	1.0	9
21	Real rank two geometry. Journal of Algebra, 2017, 484, 310-333.	0.7	5
22	Does Antibiotic Resistance Evolve in Hospitals?. Bulletin of Mathematical Biology, 2017, 79, 191-208.	1.9	8
23	Convexity in Tree Spaces. SIAM Journal on Discrete Mathematics, 2017, 31, 2015-2038.	0.8	40
24	The Hurwitz form of a projective variety. Journal of Symbolic Computation, 2017, 79, 186-196.	0.8	19
25	On the Existence of Epipolar Matrices. International Journal of Computer Vision, 2017, 121, 403-415.	15.6	19
26	Rigid multiview varieties. International Journal of Algebra and Computation, 2016, 26, 775-788.	0.5	6
27	Exponential varieties. Proceedings of the London Mathematical Society, 2016, 112, 27-56.	1.3	17
28	Symmetric matrices, Catalan paths, and correlations. Journal of Combinatorial Theory - Series A, 2016, 144, 496-510.	0.8	4
29	The Euclidean Distance Degree of an Algebraic Variety. Foundations of Computational Mathematics, 2016, 16, 99-149.	2.5	115
30	Duality of multiple root loci. Journal of Algebra, 2016, 446, 499-526.	0.7	14
31	Moment Varieties of Gaussian Mixtures. Journal of Algebraic Statistics, 2016, 7, .	0.6	23
32	Cayley–Bacharach Formulas. American Mathematical Monthly, 2015, 122, 845.	0.3	4
33	Generic Spectrahedral Shadows. SIAM Journal on Optimization, 2015, 25, 1209-1220.	2.0	9
34	Rational Design of Antibiotic Treatment Plans: A Treatment Strategy for Managing Evolution and Reversing Resistance. PLoS ONE, 2015, 10, e0122283.	2.5	52
35	Hypersurfaces and Their Singularities in Partial Correlation Testing. Foundations of Computational Mathematics, 2014, 14, 1079-1116.	2.5	6
36	Tropicalization of Classical Moduli Spaces. Mathematics in Computer Science, 2014, 8, 119-145.	0.4	13

#	Article	lF	Citations
37	Mixed discriminants. Mathematische Zeitschrift, 2013, 274, 761-778.	0.9	25
38	Toric cubes. Rendiconti Del Circolo Matematico Di Palermo, 2013, 62, 67-78.	1.3	5
39	Binary Cumulant Varieties. Annals of Combinatorics, 2013, 17, 229-250.	0.6	14
40	Monomials, binomials and Riemann–Roch. Journal of Algebraic Combinatorics, 2013, 37, 737-756.	0.8	14
41	The Universal Kummer Threefold. Experimental Mathematics, 2013, 22, 327-362.	0.7	13
42	On the convex hull of a space curve. Advances in Geometry, 2012, 12, 157-178.	0.4	19
43	Algebraic boundaries of Hilbert's SOS cones. Compositio Mathematica, 2012, 148, 1717-1735.	0.8	26
44	Commutative algebra of statistical ranking. Journal of Algebra, 2012, 361, 264-286.	0.7	15
45	ORBITOPES. Mathematika, 2011, 57, 275-314.	0.5	54
46	Mustafin varieties. Selecta Mathematica, New Series, 2011, 17, 757-793.	1.0	13
47	Quartic curves and their bitangents. Journal of Symbolic Computation, 2011, 46, 712-733.	0.8	42
48	The algebraic degree of semidefinite programming. Mathematical Programming, 2010, 122, 379-405.	2.4	67
49	Multivariate Gaussians, semidefinite matrix completion, and convex algebraic geometry. Annals of the Institute of Statistical Mathematics, 2010, 62, 603-638.	0.8	38
50	Computer Algebra in Systems Biology. American Mathematical Monthly, 2009, 116, 882-891.	0.3	20
51	Lectures on Algebraic Statistics. , 2009, , .		172
52	Three Counter-Examples on Semi-Graphoids. Combinatorics Probability and Computing, 2008, 17, 239-257.	1.3	12
53	Tropical discriminants. Journal of the American Mathematical Society, 2007, 20, 1111-1133.	3.9	82
54	Hyperdeterminantal relations among symmetric principal minors. Journal of Algebra, 2007, 316, 634-648.	0.7	52

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55	Computing the integer programming gap. Combinatorica, 2007, 27, 367-382.	1.2	43
56	Algebraic factor analysis: tetrads, pentads and beyond. Probability Theory and Related Fields, 2007, 138, 463-493.	1.8	51
57	Solving the Likelihood Equations. Foundations of Computational Mathematics, 2005, 5, 389-407.	2.5	57
58	Toric Ideals of Phylogenetic Invariants. Journal of Computational Biology, 2005, 12, 457-481.	1.6	29
59	Toric Ideals of Phylogenetic Invariants. Journal of Computational Biology, 2005, 12, 204-228.	1.6	82
60	Supernormal Vector Configurations. Journal of Algebraic Combinatorics, 2004, 19, 297-313.	0.8	2
61	Algebraic unimodular counting. Mathematical Programming, 2003, 96, 183-203.	2.4	19
62	Hypergeometric Polynomials and Integer Programming. Compositio Mathematica, 1999, 115, 231-240.	0.8	13
63	How to shell a monoid. Mathematische Annalen, 1998, 310, 379-393.	1.4	38
64	Syzygies of codimension 2 lattice ideals. Mathematische Zeitschrift, 1998, 229, 163-194.	0.9	58
65	Variation of cost functions in integer programming. Mathematical Programming, 1997, 77, 357-387.	2.4	40
66	Structural GrÃ \P bner Basis Detection. Applicable Algebra in Engineering, Communications and Computing, 1997, 8, 257-263.	0.5	3
67	Primary Decomposition with Differential Operators. International Mathematics Research Notices, 0, , .	1.0	2