Michael F Singer

List of Publications by Year
in descending order

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50 papers	1,937 citations	361413 20 h-index	254184 43 g-index
53 all docs	53 docs citations	53 times ranked	327 citing authors

#	Article	IF	Citations
1	Sparse Interpolation in Terms of Multivariate Chebyshev Polynomials. Foundations of Computational Mathematics, 2022, 22, 1801-1862.	2.5	1
2	On differentially algebraic generating series for walks in the quarter plane. Selecta Mathematica, New Series, 2021, 27, 1.	1.0	3
3	On the Kernel Curves Associated with Walks in the Quarter Plane. Springer Proceedings in Mathematics and Statistics, 2021, , 61-89.	0.2	0
4	Walks in the quarter plane: Genus zero case. Journal of Combinatorial Theory - Series A, 2020, 174, 105251.	0.8	7
5	On the nature of the generating series of walks in the quarter plane. Inventiones Mathematicae, 2018, 213, 139-203.	2.5	31
6	Galois groups for integrable and projectively integrable linear difference equations. Journal of Algebra, 2017, 480, 423-449.	0.7	8
7	Reductive Linear Differential Algebraic Groups and the Galois Groups of Parameterized Linear Differential Equations. International Mathematics Research Notices, 2015, 2015, 1733-1793.	1.0	18
8	Parallel telescoping and parameterized Picard-Vessiot theory. , 2014, , .		3
9	On the summability of bivariate rational functions. Journal of Algebra, 2014, 409, 320-343.	0.7	11
10	Unipotent differential algebraic groups as parameterized differential Galois groups. Journal of the Institute of Mathematics of Jussieu, 2014, 13, 671-700.	0.7	21
11	Linear algebraic groups as parameterized Picardâ€“Vessiot Galois groups. Journal of Algebra, 2013, 373, 153-161.	0.7	18
12	Monodromy groups of parameterized linear differential equations with regular singularities. Bulletin of the London Mathematical Society, 2012, 44, 913-930.	0.8	19
13	Projective isomonodromy and Galois groups. Proceedings of the American Mathematical Society, 2012, 141, 605-617.	0.8	11
14	Residues and telescopers for bivariate rational functions. Advances in Applied Mathematics, 2012, 49, 111-133.	0.7	35
15	A Jordanâ€“HÃ¶lder Theorem for differential algebraic groups. Journal of Algebra, 2011, 328, 190-217.	0.7	22
16	Liouvillian solutions of linear differenceâ€“differential equations. Journal of Symbolic Computation, 2010, 45, 287-305.	0.8	7
17	An algorithm to compute Liouvillian solutions of prime order linear differenceâ€“differential equations. Journal of Symbolic Computation, 2010, 45, 306-323.	0.8	6
18	Differential Galois theory of linear difference equations. Mathematische Annalen, 2008, 342, 333-377.	1.4	96

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19	On the definitions of difference Galois groups. , 2008, , 73-110.		17
20	A recursive method for determining the one-dimensional submodules of Laurent-Ore modules. , 2006, , .		10
21	On the Constructive Inverse Problem in Differential Galois Theory#. Communications in Algebra, 2005, 33, 3639-3665.	0.6	3
22	Galois Theory of Linear Differential Equations. Grundlehren Der Mathematischen Wissenschaften in Einzeldarstellungen Mit Besonderer BerÃ¼cksichtigung Der Anwendungsgebiete, 2003, , .	0.9	424
23	Linear Differential Operators for Polynomial Equations. Journal of Symbolic Computation, 2002, 34, 355-398.	0.8	17
24	Solvable-by-finite groups as differential Galois groups. Annales De La FacultÃ© Des Sciences De Toulouse, 2002, 11, 403-423.	0.3	11
25	Computing Galois Groups of Completely Reducible Differential Equations. Journal of Symbolic Computation, 1999, 28, 473-494.	0.8	23
26	Linear differential equations and products of linear forms. Journal of Pure and Applied Algebra, 1997, 117-118, 549-563.	0.6	14
27	Testing reducibility of linear differential operators: A group theoretic perspective. Applicable Algebra in Engineering, Communications and Computing, 1996, 7, 77-104.	0.5	69
28	Necessary conditions for liouvillian solutions of (third order) linear differential equations. Applicable Algebra in Engineering, Communications and Computing, 1995, 6, 1-22.	0.5	33
29	Computational Complexity of Sparse Rational Interpolation. SIAM Journal on Computing, 1994, 23, 1-11.	1.0	39
30	Galois Groups of Second and Third Order Linear Differential Equations. Journal of Symbolic Computation, 1993, 16, 9-36.	0.8	76
31	Liouvillian and Algebraic Solutions of Second and Third Order Linear Differential Equations. Journal of Symbolic Computation, 1993, 16, 37-73.	0.8	59
32	On the integer zeros of exponential polynomials. Complex Variables and Elliptic Equations, 1993, 23, 201-211.	0.2	0
33	On a third order differential equation whose differential Galois group is the simple group of 168 elements. Lecture Notes in Computer Science, 1993, , 316-324.	1.3	2
34	Liouvillian first integrals of differential equations. Transactions of the American Mathematical Society, 1992, 333, 673-688.	0.9	211
35	The interpolation problem for k-sparse sums of eigenfunctions of operators. Advances in Applied Mathematics, 1991, 12, 76-81.	0.7	25
36	Liouvillian Solutions of Linear Differential Equations with Liouvillian Coefficients. Journal of Symbolic Computation, 1991, 11, 251-273.	0.8	72

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37	Formal solutions of differential equations. Journal of Symbolic Computation, 1990, 10, 59-94.	0.8	39
38	Fast Parallel Algorithms for Sparse Multivariate Polynomial Interpolation over Finite Fields. SIAM Journal on Computing, 1990, 19, 1059-1063.	1.0	109
39	Algebraic properties of the ring of general exponential polynomials. Complex Variables and Elliptic Equations, 1989, 13, 1-20.	0.2	7
40	Liouvillian Solutions of Linear Differential Equations with Liouvillian Coefficients. , 1989, , 182-191.		4
41	Algebraic Relations Among Solutions of Linear Differential Equations: Fano's Theorem. American Journal of Mathematics, 1988, 110, 115.	1.1	18
42	Solving Homogeneous Linear Differential Equations in Terms of Second Order Linear Differential Equations. American Journal of Mathematics, 1985, 107, 663.	1.1	37
43	Some Applications of Linear Groups to Differential Equations. American Journal of Mathematics, 1985, 107, 1111.	1.1	3
44	Liouvillian Solutions of n-th Order Homogeneous Linear Differential Equations. American Journal of Mathematics, 1981, 103, 661.	1.1	99
45	Separatrices at singular points of planar vector fields. Acta Mathematica, 1980, 145, 47-78.	3.9	7
46	Planar polynomial foliations. Proceedings of the American Mathematical Society, 1980, 79, 649-656.	0.8	8
47	The model theory of ordered differential fields. Journal of Symbolic Logic, 1978, 43, 82-91.	0.5	36
48	A class of differential fields with minimal differential closures. Proceedings of the American Mathematical Society, 1978, 69, 319-322.	0.8	7
49	Functions satisfying elementary relations. Transactions of the American Mathematical Society, 1977, 227, 185-206.	0.9	7
50	Solutions of linear differential equations in function fields of one variable. Proceedings of the American Mathematical Society, 1976, 54, 69-69.	0.8	8