Dierk Schleicher

List of Publications by Year
in descending order

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Version: 2024-02-01

46	926	516710	501196
papers	citations	16 h-index	28 g-index

54	54	54	286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How to find all roots of complex polynomials by Newtonâ€™s method. Inventiones Mathematicae, 2001, 146, 1-33.	2.5	127
2	Dynamic rays of bounded-type entire functions. Annals of Mathematics, 2011, 173, 77-125.	4.2	76
3	ESCAPING POINTS OF EXPONENTIAL MAPS. Journal of the London Mathematical Society, 2003, 67, 380-400.	1.0	67
4	Hausdorff Dimension, Its Properties, and Its Surprises. American Mathematical Monthly, 2007, 114, 509-528.	0.3	45
5	ON MULTICORNS AND UNICORNS I: ANTIHOLOMORPHIC DYNAMICS, HYPERBOLIC COMPONENTS AND REAL CUBIC POLYNOMIALS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2825-2844.	1.7	40
6	Dynamics of Entire Functions. Lecture Notes in Mathematics, 2010, , 295-339.	0.2	33
7	Symmetries of fractals revisited. Mathematical Intelligencer, 1996, 18, 45-51.	0.2	32
8	Embedding non-Euclidean color spaces into Euclidean color spaces with minimal isometric disagreement. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1516.	1.5	29
9	The dynamical fine structure of iterated cosine maps and a dimension paradox. Duke Mathematical Journal, 2007, 136, .	1.5	28
10	Immediate and Virtual Basins of Newtonâ€™s Method for Entire Functions. Annales De L'Institut Fourier, 2006, 56, 325-336.	0.6	23
11	Classification of escaping exponential maps. Proceedings of the American Mathematical Society, 2007, 136, 651-663.	0.8	22
12	On multicorns and unicorns II: bifurcations in spaces of antiholomorphic polynomials. Ergodic Theory and Dynamical Systems, 2017, 37, 859-899.	0.6	20
13	Admissibility of kneading sequences and structure of Hubbard trees for quadratic polynomials. Journal of the London Mathematical Society, 2008, 78, 502-522.	1.0	18
14	Exponential Thurston maps and limits of quadratic differentials. Journal of the American Mathematical Society, 2008, 22, 77-117.	3.9	18
15	Bifurcations in the space of exponential maps. Inventiones Mathematicae, 2009, 175, 103-135.	2.5	18
16	Newton's method in practice: Finding all roots of polynomials of degree one million efficiently. Theoretical Computer Science, 2017, 681, 146-166.	0.9	18
17	Escaping points of the cosine family. , 0, , 396-424.		18
18	Existence of quadratic Hubbard trees. Fundamenta Mathematicae, 2009, 202, 251-279.	0.5	17

#	Article	IF	Citations
19	On Newton's method for entire functions. Journal of the London Mathematical Society, 2007, 75, 659-676.	1.0	16
20	On the number of iterations of Newton's method for complex polynomials. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	14
21	How to add a non-integer number of terms, and how to produce unusual infinite summations. Journal of Computational and Applied Mathematics, 2005, 178, 347-360.	2.0	13
22	Parameter rays in the space of exponential maps. Ergodic Theory and Dynamical Systems, 2009, 29, 515-544.	0.6	13
23	Fractional sums and Euler-like identities. Ramanujan Journal, 2010, 21, 123-143.	0.7	13
24	Multicorns are not path connected. , 2014, , 73-102.		13
25	The 3n+l-Problem and Holomorphic Dynamics. Experimental Mathematics, 1999, 8, 241-251.	0.7	11
26	Hausdorff dimension of exponential parameter rays and their endpoints. Nonlinearity, 2008, 21, 113-120.	1.4	11
27	How to Add a Noninteger Number of Terms: From Axioms to New Identities. American Mathematical Monthly, 2011, 118, 136.	0.3	10
28	A small probabilistic universal set of starting points for finding roots of complex polynomials by Newtonâ€™s method. Mathematics of Computation, 2012, 82, 443-457.	2.1	10
29	A combinatorial classification of postcritically fixed Newton maps. Ergodic Theory and Dynamical Systems, 2019, 39, 2983-3014.	0.6	10
30	On the speed of convergence of Newtonâ€™s method for complex polynomials. Mathematics of Computation, 2015, 85, 693-705.	2.1	9
31	Combinatorics of bifurcations in exponential parameter space. , 0, , 317-370.		8
32	On biaccessible points in the Julia set of a Cremer quadratic polynomial. Proceedings of the American Mathematical Society, 1999, 128, 933-937.	0.8	8
33	Hyperbolic components in exponential parameter space. Comptes Rendus Mathematique, 2004, 339, 223-228.	0.3	7
34	Rational Parameter Rays of the Multibrot Sets. , 2016, , 49-84.		6
35	Internal Addresses of the Mandelbrot Set and Galois Groups of Polynomials. Arnold Mathematical Journal, 2017, 3, 1-35.	0.4	6
36	A combinatorial classification of postsingularly finite complex exponential maps. Discrete and Continuous Dynamical Systems, 2008, 22, 663-682.	0.9	6

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37	Hausdorff dimension and biaccessibility for polynomial Julia sets. Proceedings of the American Mathematical Society, 2013, 141, 533-542.	0.8	5
38	Homeomorphisms between limbs of the Mandelbrot set. Proceedings of the American Mathematical Society, 2012, 140, 1947-1956.	0.8	5
39	Interview with John Horton Conway. Notices of the American Mathematical Society, 2013, 60, 567.	0.2	4
40	Antiholomorphic perturbations of Weierstrass Zeta functions and Greenâ€™s function on tori. Nonlinearity, 2017, 30, 3241-3254.	1.4	2
41	Core Entropy of Quadratic Polynomials. Arnold Mathematical Journal, 2020, 6, 333-385.	0.4	2
42	New Looks at Old Number Theory. American Mathematical Monthly, 2013, 120, 243.	0.3	1
43	Bernoulli measure of complex admissible kneading sequences. Ergodic Theory and Dynamical Systems, 2013, 33, 821-830.	0.6	1
44	John Conway: The Man Who Played Mathematics. Mathematical Intelligencer, 2021, 43, 79-91.	0.2	1
45	Homotopy Hubbard trees for post-singularly finite exponential maps. Ergodic Theory and Dynamical Systems, 0, , 1-46.	0.6	0
46	Complex Dynamics, the Mandelbrot Set, and Newtonâ€™s Method â€” or: On Useless and Useful Mathematics. , 2011, , 207-220.		0