E B Saff

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11760360/publications.pdf

Version: 2024-02-01

65	2,739	331670	182427
papers	citations	21	51
		h-index	g-index

68	68	68	1580
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distributing many points on a sphere. Mathematical Intelligencer, 1997, 19, 5-11.	0.2	851
2	Minimal Discrete Energy on the Sphere. Mathematical Research Letters, 1994, 1, 647-662.	0.5	267
3	Where does the sup norm of a weighted polynomial live?. Constructive Approximation, 1985, 1, 71-91.	3.0	192
4	Extremal problems for polynomials with exponential weights. Transactions of the American Mathematical Society, 1984, 285, 203-234.	0.9	156
5	Asymptotics for minimal discrete energy on the sphere. Transactions of the American Mathematical Society, 1998, 350, 523-538.	0.9	133
6	Constrained energy problems with applications to orthogonal polynomials of a discrete variable. Journal D'Analyse Mathematique, 1997, 72, 223-259.	0.8	93
7	A proof of Freud's conjecture for exponential weights. Constructive Approximation, 1988, 4, 65-83.	3.0	85
8	On the zeros and poles of Padï¿½ approximants toe z. Numerische Mathematik, 1975, 25, 1-14.	1.9	70
9	Jentzsch-SzegÃ¶ Type Theorems for the Zeros of Best Approximants. Journal of the London Mathematical Society, 1988, s2-38, 307-316.	1.0	66
10	QMC designs: Optimal order Quasi Monte Carlo integration schemes on the sphere. Mathematics of Computation, 2014, 83, 2821-2851.	2.1	59
11	Higher-Order Three-Term Recurrences andÂAsymptotics of Multiple Orthogonal Polynomials. Constructive Approximation, 2009, 30, 175-223.	3.0	55
12	Asymptotics for Minimal Discrete Riesz Energy on Curves in â„‹<i>‹sup›d‹/sup›‹/i›. Canadian Journal of Mathematics, 2004, 56, 529-552.	0.6	38
13	Where does the ?^{?}-norm of a weighted polynomial live?. Transactions of the American Mathematical Society, 1987, 303, 109-124.	0.9	33
14	Zero asymptotic behaviour for orthogonal matrix polynomials. Journal D'Analyse Mathematique, 1999, 78, 37-60.	0.8	32
15	Orthogonal Polynomials from a Complex Perspective. , 1990, , 363-393.		31
16	Geometric convergence to e?z by rational functions with real poles. Numerische Mathematik, 1975, 25, 307-322.	1.9	30
17	Riesz Spherical Potentials with External Fields and Minimal Energy Points Separation. Potential Analysis, 2007, 26, 139-162.	0.9	29
18	Weighted analogues of capacity, transfinite diameter, and Chebyshev constant. Constructive Approximation, 1992, 8, 105-124.	3.0	26

#	Article	IF	Citations
19	Uniform and mean approximation by certain weighted polynomials, with applications. Constructive Approximation, 1988, 4, 21-64.	3.0	25
20	The Riesz energy of the N th roots of unity: an asymptotic expansion for large N. Bulletin of the London Mathematical Society, 2009, 41, 621-633.	0.8	25
21	Universal Lower Bounds for Potential Energy of Spherical Codes. Constructive Approximation, 2016, 44, 385-415.	3.0	21
22	On Incomplete Polynomials. International Series of Numerical Mathematics, 1978, , 281-298.	1.1	21
23	On the sharpness of theorems concerning zero-free regions for certain sequences of polynomials. Numerische Mathematik, 1976, 26, 345-354.	1.9	20
24	Uniform approximation by incomplete polynomials. International Journal of Mathematics and Mathematical Sciences, 1978, 1, 407-420.	0.7	20
25	Weighted polynomials on finite and infinite intervals: a unified approach. Bulletin of the American Mathematical Society, 1984, 11, 351-354.	1.5	20
26	Zeros of expansions in orthogonal polynomials. Mathematical Proceedings of the Cambridge Philosophical Society, 1989, 105, 559-573.	0.4	20
27	Asymptotic distribution of the zeros of Faber polynomials. Mathematical Proceedings of the Cambridge Philosophical Society, 1995, 118, 437-447.	0.4	20
28	The Sharpness of Lorentz's Theorem on Incomplete Polynomials. Transactions of the American Mathematical Society, 1979, 249, 163.	0.9	19
29	Geometric convergence of rational approximations toe ?z in infinite sectors. Numerische Mathematik, 1976, 26, 211-225.	1.9	18
30	Periodic discrete energy for long-range potentials. Journal of Mathematical Physics, 2014, 55, .	1.1	18
31	Freudâ€™s conjecture for exponential weights. Bulletin of the American Mathematical Society, 1986, 15, 217-221.	1.5	17
32	The Covering Radius of Randomly Distributed Points on a Manifold. International Mathematics Research Notices, 2016, 2016, 6065-6094.	1.0	17
33	Markovâ€“Bernstein and Nikolskiui Inequalities, and Christoffel Functions for Exponential Weights on $(- 1,1)$. SIAM Journal on Mathematical Analysis, 1993, 24, 528-556.	1.9	15
34	A criterion for uniqueness of a critical point inH 2 rational approximation. Journal D'Analyse Mathematique, 1996, 70, 225-266.	0.8	15
35	Low Complexity Methods For Discretizing Manifolds Via Riesz Energy Minimization. Foundations of Computational Mathematics, 2014, 14, 1173-1208.	2.5	15
36	Random Point Sets on the Sphereâ€”Hole Radii, Covering, and Separation. Experimental Mathematics, 2018, 27, 62-81.	0.7	15

#	Article	IF	Citations
37	On the definition of a close-to-convex function. International Journal of Mathematics and Mathematical Sciences, 1978, 1, 125-132.	0.7	12
38	Asymptotics of greedy energy points. Mathematics of Computation, 2010, 79, 2287-2316.	2.1	12
39	Mesh ratios for best-packing and limits of minimal energy configurations. Acta Mathematica Hungarica, 2014, 142, 118-131.	0.5	12
40	Optimal discrete measures for Riesz potentials. Transactions of the American Mathematical Society, 2018, 370, 6973-6993.	0.9	11
41	Energy bounds for codes and designs in Hamming spaces. Designs, Codes, and Cryptography, 2017, 82, 411-433.	1.6	9
42	Rational approximation with varying weights I. Constructive Approximation, 1996, 12, 223-240.	3.0	8
43	Support of the logarithmic equilibrium measure on sets of revolution in R3. Journal of Mathematical Physics, 2007, 48, 022901.	1.1	8
44	A fascinating polynomial sequence arising from an electrostatics problem on the sphere. Acta Mathematica Hungarica, 2012, 137, 10-26.	0.5	6
45	On spherical codes with inner products in a prescribed interval. Designs, Codes, and Cryptography, 2019, 87, 299-315.	1.6	6
46	Energy bounds for codes in polynomial metric spaces. Analysis and Mathematical Physics, 2019, 9, 781-808.	1.3	6
47	Condensers with Touching Plates and Constrained Minimum Riesz and Green Energy Problems. Constructive Approximation, 2019, 50, 369-401.	3.0	6
48	Polynomials with laguerre weights in Lp. Lecture Notes in Mathematics, 1984, , 511-523.	0.2	5
49	Minimum Riesz Energy Problems for a Condenser with Touching Plates. Potential Analysis, 2016, 44, 543-577.	0.9	5
50	On the Denseness of Weighted Incomplete Approximations. Springer Series in Computational Mathematics, 1992, , 419-429.	0.2	5
51	Weighted Polynomial Approximation of Analytic Functions. Journal of the London Mathematical Society, 1988, s2-37, 455-463.	1.0	4
52	Estimating the argument of approximate conformal mappings. Complex Variables and Elliptic Equations, 1994, 26, 191-202.	0.2	4
53	Fast decreasing rational functions. Israel Journal of Mathematics, 1999, 114, 125-148.	0.8	4
54	A REMEZ-TYPE THEOREM FOR HOMOGENEOUS POLYNOMIALS. Journal of the London Mathematical Society, 2006, 73, 783-796.	1.0	4

#	Article	IF	Citations
55	A Minimum Principle for Potentials with Application to Chebyshev Constants. Potential Analysis, 2017, 47, 235-244.	0.9	4
56	Generating Point Configurations via Hypersingular Riesz Energy with an External Field. SIAM Journal on Mathematical Analysis, 2017, 49, 646-673.	1.9	3
57	ASYMPTOTIC LINEAR PROGRAMMING LOWER BOUNDS FOR THE ENERGY OF MINIMIZING RIESZ AND GAUSS CONFIGURATIONS. Mathematika, 2019, 65, 157-180.	0.5	3
58	Inverse Potential Problems for Divergence of Measures with Total Variation Regularization. Foundations of Computational Mathematics, 2020, 20, 1273-1307.	2.5	3
59	On Polynomials of Minimal L q -Deviation, 0 < q < 1. Journal of the London Mathematical Society, 1988, s2-37, 182-192.	1.0	2
60	Distribution of interpolation points of bestL 2-approximants (nth partial sums of Fourier series). Constructive Approximation, 1993, 9, 445-472.	3.0	2
61	Upper bounds for energies of spherical codes of given cardinality and separation. Designs, Codes, and Cryptography, 2020, 88, 1811-1826.	1.6	2
62	The Error for Quadrature Methods: A Complex Variables Approach. American Mathematical Monthly, 1987, 94, 175-180.	0.3	1
63	The Representation of Functions in Terms of Their Divided Differences at Chebyshev Nodes and Roots of Unity. Journal of the London Mathematical Society, 1990, s2-42, 309-328.	1.0	1
64	On the Behavior of Zeros of Polynomials of Best and Near-Best Approximation. Canadian Journal of Mathematics, 1991, 43, 1010-1021.	0.6	1
65	Best Polynomial Approximation with Linear Constraints. Canadian Journal of Mathematics, 1992, 44, 1289-1302.	0.6	0