

# E B Saff

## List of Publications by Year in descending order

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65  
papers

2,739  
citations

331670

21  
h-index

182427

51  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1580  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse Potential Problems for Divergence of Measures with Total Variation Regularization. Foundations of Computational Mathematics, 2020, 20, 1273-1307.	2.5	3
2	Upper bounds for energies of spherical codes of given cardinality and separation. Designs, Codes, and Cryptography, 2020, 88, 1811-1826.	1.6	2
3	On spherical codes with inner products in a prescribed interval. Designs, Codes, and Cryptography, 2019, 87, 299-315.	1.6	6
4	Energy bounds for codes in polynomial metric spaces. Analysis and Mathematical Physics, 2019, 9, 781-808.	1.3	6
5	Condensers with Touching Plates and Constrained Minimum Riesz and Green Energy Problems. Constructive Approximation, 2019, 50, 369-401.	3.0	6
6	ASYMPTOTIC LINEAR PROGRAMMING LOWER BOUNDS FOR THE ENERGY OF MINIMIZING RIESZ AND GAUSS CONFIGURATIONS. Mathematika, 2019, 65, 157-180.	0.5	3
7	Random Point Sets on the Sphere—Hole Radii, Covering, and Separation. Experimental Mathematics, 2018, 27, 62-81.	0.7	15
8	Optimal discrete measures for Riesz potentials. Transactions of the American Mathematical Society, 2018, 370, 6973-6993.	0.9	11
9	A Minimum Principle for Potentials with Application to Chebyshev Constants. Potential Analysis, 2017, 47, 235-244.	0.9	4
10	Generating Point Configurations via Hypersingular Riesz Energy with an External Field. SIAM Journal on Mathematical Analysis, 2017, 49, 646-673.	1.9	3
11	Energy bounds for codes and designs in Hamming spaces. Designs, Codes, and Cryptography, 2017, 82, 411-433.	1.6	9
12	Minimum Riesz Energy Problems for a Condenser with Touching Plates. Potential Analysis, 2016, 44, 543-577.	0.9	5
13	The Covering Radius of Randomly Distributed Points on a Manifold. International Mathematics Research Notices, 2016, 2016, 6065-6094.	1.0	17
14	Universal Lower Bounds for Potential Energy of Spherical Codes. Constructive Approximation, 2016, 44, 385-415.	3.0	21
15	Periodic discrete energy for long-range potentials. Journal of Mathematical Physics, 2014, 55, .	1.1	18
16	QMC designs: Optimal order Quasi Monte Carlo integration schemes on the sphere. Mathematics of Computation, 2014, 83, 2821-2851.	2.1	59
17	Low Complexity Methods For Discretizing Manifolds Via Riesz Energy Minimization. Foundations of Computational Mathematics, 2014, 14, 1173-1208.	2.5	15
18	Mesh ratios for best-packing and limits of minimal energy configurations. Acta Mathematica Hungarica, 2014, 142, 118-131.	0.5	12

#	ARTICLE	IF	CITATIONS
19	A fascinating polynomial sequence arising from an electrostatics problem on the sphere. <i>Acta Mathematica Hungarica</i> , 2012, 137, 10-26.	0.5	6
20	Asymptotics of greedy energy points. <i>Mathematics of Computation</i> , 2010, 79, 2287-2316.	2.1	12
21	The Riesz energy of the $N$ th roots of unity: an asymptotic expansion for large $N$ . <i>Bulletin of the London Mathematical Society</i> , 2009, 41, 621-633.	0.8	25
22	Higher-Order Three-Term Recurrences and Asymptotics of Multiple Orthogonal Polynomials. <i>Constructive Approximation</i> , 2009, 30, 175-223.	3.0	55
23	Support of the logarithmic equilibrium measure on sets of revolution in $R^3$ . <i>Journal of Mathematical Physics</i> , 2007, 48, 022901.	1.1	8
24	Riesz Spherical Potentials with External Fields and Minimal Energy Points Separation. <i>Potential Analysis</i> , 2007, 26, 139-162.	0.9	29
25	A REMEZ-TYPE THEOREM FOR HOMOGENEOUS POLYNOMIALS. <i>Journal of the London Mathematical Society</i> , 2006, 73, 783-796.	1.0	4
26	Asymptotics for Minimal Discrete Riesz Energy on Curves in $\mathbb{R}^d$ . <i>Canadian Journal of Mathematics</i> , 2004, 56, 529-552.	0.6	38
27	Fast decreasing rational functions. <i>Israel Journal of Mathematics</i> , 1999, 114, 125-148.	0.8	4
28	Zero asymptotic behaviour for orthogonal matrix polynomials. <i>Journal D'Analyse Mathematique</i> , 1999, 78, 37-60.	0.8	32
29	Asymptotics for minimal discrete energy on the sphere. <i>Transactions of the American Mathematical Society</i> , 1998, 350, 523-538.	0.9	133
30	Distributing many points on a sphere. <i>Mathematical Intelligencer</i> , 1997, 19, 5-11.	0.2	851
31	Constrained energy problems with applications to orthogonal polynomials of a discrete variable. <i>Journal D'Analyse Mathematique</i> , 1997, 72, 223-259.	0.8	93
32	A criterion for uniqueness of a critical point in $H^2$ rational approximation. <i>Journal D'Analyse Mathematique</i> , 1996, 70, 225-266.	0.8	15
33	Rational approximation with varying weights I. <i>Constructive Approximation</i> , 1996, 12, 223-240.	3.0	8
34	Asymptotic distribution of the zeros of Faber polynomials. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1995, 118, 437-447.	0.4	20
35	Estimating the argument of approximate conformal mappings. <i>Complex Variables and Elliptic Equations</i> , 1994, 26, 191-202.	0.2	4
36	Minimal Discrete Energy on the Sphere. <i>Mathematical Research Letters</i> , 1994, 1, 647-662.	0.5	267

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37	Distribution of interpolation points of best $L_2$ -approximants (nth partial sums of Fourier series). Constructive Approximation, 1993, 9, 445-472.	3.0	2
38	Markov's Bernstein and Nikolskii Inequalities, and Christoffel Functions for Exponential Weights on $(-1, 1)$ . SIAM Journal on Mathematical Analysis, 1993, 24, 528-556.	1.9	15
39	Best Polynomial Approximation with Linear Constraints. Canadian Journal of Mathematics, 1992, 44, 1289-1302.	0.6	0
40	Weighted analogues of capacity, transfinite diameter, and Chebyshev constant. Constructive Approximation, 1992, 8, 105-124.	3.0	26
41	On the Denseness of Weighted Incomplete Approximations. Springer Series in Computational Mathematics, 1992, , 419-429.	0.2	5
42	On the Behavior of Zeros of Polynomials of Best and Near-Best Approximation. Canadian Journal of Mathematics, 1991, 43, 1010-1021.	0.6	1
43	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
44	Orthogonal Polynomials from a Complex Perspective. , 1990, , 363-393.		31
45	Zeros of expansions in orthogonal polynomials. Mathematical Proceedings of the Cambridge Philosophical Society, 1989, 105, 559-573.	0.4	20
46	Uniform and mean approximation by certain weighted polynomials, with applications. Constructive Approximation, 1988, 4, 21-64.	3.0	25
47	A proof of Freud's conjecture for exponential weights. Constructive Approximation, 1988, 4, 65-83.	3.0	85
48	On Polynomials of Minimal $L_q$ -Deviation, $0 < q < 1$ . Journal of the London Mathematical Society, 1988, s2-37, 182-192.	1.0	2
49	Weighted Polynomial Approximation of Analytic Functions. Journal of the London Mathematical Society, 1988, s2-37, 455-463.	1.0	4
50	Jentzsch-Szegő Type Theorems for the Zeros of Best Approximants. Journal of the London Mathematical Society, 1988, s2-38, 307-316.	1.0	66
51	Where does the $\ \cdot\ _q$ -norm of a weighted polynomial live?. Transactions of the American Mathematical Society, 1987, 303, 109-124.	0.9	33
52	The Error for Quadrature Methods: A Complex Variables Approach. American Mathematical Monthly, 1987, 94, 175-180.	0.3	1
53	Freud's conjecture for exponential weights. Bulletin of the American Mathematical Society, 1986, 15, 217-221.	1.5	17
54	Where does the sup norm of a weighted polynomial live?. Constructive Approximation, 1985, 1, 71-91.	3.0	192

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55	Weighted polynomials on finite and infinite intervals: a unified approach. Bulletin of the American Mathematical Society, 1984, 11, 351-354.	1.5	20
56	Polynomials with laguerre weights in $L_p$ . Lecture Notes in Mathematics, 1984, , 511-523.	0.2	5
57	Extremal problems for polynomials with exponential weights. Transactions of the American Mathematical Society, 1984, 285, 203-234.	0.9	156
58	The Sharpness of Lorentz's Theorem on Incomplete Polynomials. Transactions of the American Mathematical Society, 1979, 249, 163.	0.9	19
59	Uniform approximation by incomplete polynomials. International Journal of Mathematics and Mathematical Sciences, 1978, 1, 407-420.	0.7	20
60	On the definition of a close-to-convex function. International Journal of Mathematics and Mathematical Sciences, 1978, 1, 125-132.	0.7	12
61	On Incomplete Polynomials. International Series of Numerical Mathematics, 1978, , 281-298.	1.1	21
62	Geometric convergence of rational approximations to $e^z$ in infinite sectors. Numerische Mathematik, 1976, 26, 211-225.	1.9	18
63	On the sharpness of theorems concerning zero-free regions for certain sequences of polynomials. Numerische Mathematik, 1976, 26, 345-354.	1.9	20
64	Geometric convergence to $e^z$ by rational functions with real poles. Numerische Mathematik, 1975, 25, 307-322.	1.9	30
65	On the zeros and poles of Padé $1/2$ approximants to $e^z$ . Numerische Mathematik, 1975, 25, 1-14.	1.9	70