

Lszl Erdos

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

2,833
citations

31
h-index

50
g-index

100
ext. papers

3,289
ext. citations

1.8
avg, IF

5.67
L-index

#	Paper	IF	Citations
96	Derivation of the cubic non-linear Schrödinger equation from quantum dynamics of many-body systems. <i>Inventiones Mathematicae</i> , 2007 , 167, 515-614	2.2	168
95	Rigidity of eigenvalues of generalized Wigner matrices. <i>Advances in Mathematics</i> , 2012 , 229, 1435-1515	1.3	157
94	Spectral statistics of Erdős-Rényi graphs I: Local semicircle law. <i>Annals of Probability</i> , 2013 , 41,	1.9	127
93	Local Semicircle Law and Complete Delocalization for Wigner Random Matrices. <i>Communications in Mathematical Physics</i> , 2009 , 287, 641-655	2	124
92	Spectral Statistics of Erdős-Rényi Graphs II: Eigenvalue Spacing and the Extreme Eigenvalues. <i>Communications in Mathematical Physics</i> , 2012 , 314, 587-640	2	112
91	Semicircle law on short scales and delocalization of eigenvectors for Wigner random matrices. <i>Annals of Probability</i> , 2009 , 37,	1.9	112
90	Bulk universality for generalized Wigner matrices. <i>Probability Theory and Related Fields</i> , 2012 , 154, 341-407	1.7	110
89	Rigorous derivation of the Gross-Pitaevskii equation. <i>Physical Review Letters</i> , 2007 , 98, 040404	7.4	99
88	Universality of random matrices and local relaxation flow. <i>Inventiones Mathematicae</i> , 2011 , 185, 75-119	2.2	93
87	Derivation of the Gross-Pitaevskii hierarchy for the dynamics of Bose-Einstein condensate. <i>Communications on Pure and Applied Mathematics</i> , 2006 , 59, 1659-1741	2.5	92
86	Wegner Estimate and Level Repulsion for Wigner Random Matrices. <i>International Mathematics Research Notices</i> , 2010 , 2010, 436-479	0.8	83
85	Edge Universality of Beta Ensembles. <i>Communications in Mathematical Physics</i> , 2014 , 332, 261-353	2	70
84	The local semicircle law for a general class of random matrices. <i>Electronic Journal of Probability</i> , 2013 , 18,	1.1	65
83	The local relaxation flow approach to universality of the local statistics for random matrices. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2012 , 48,	1.3	63
82	Universality of general Ensembles. <i>Duke Mathematical Journal</i> , 2014 , 163,	1.9	60
81	Universality of local spectral statistics of random matrices. <i>Bulletin of the American Mathematical Society</i> , 2012 , 49, 377-414	1.3	59
80	Gross-Pitaevskii Equation as the Mean Field Limit of Weakly Coupled Bosons. <i>Archive for Rational Mechanics and Analysis</i> , 2006 , 179, 265-283	2.3	56

79	Bulk universality for Wigner hermitian matrices with subexponential decay. <i>Mathematical Research Letters</i> , 2010 , 17, 667-674	0.6	50
78	Averaging Fluctuations in Resolvents of Random Band Matrices. <i>Annales Henri Poincare</i> , 2013 , 14, 1837-1926		49
77	Delocalization and Diffusion Profile for Random Band Matrices. <i>Communications in Mathematical Physics</i> , 2013 , 323, 367-416	2	45
76	Bulk universality of general Ensembles with non-convex potential. <i>Journal of Mathematical Physics</i> , 2012 , 53, 095221	1.2	43
75	Quantum Diffusion and Eigenfunction Delocalization in a Random Band Matrix Model. <i>Communications in Mathematical Physics</i> , 2011 , 303, 509-554	2	42
74	Fixed Energy Universality for Generalized Wigner Matrices. <i>Communications on Pure and Applied Mathematics</i> , 2016 , 69, 1815-1881	2.5	41
73	Universality for generalized Wigner matrices with Bernoulli distribution. <i>Electronic Journal of Combinatorics</i> , 2011 , 2, 15-81	0	40
72	Ground-state energy of a low-density Bose gas: A second-order upper bound. <i>Physical Review A</i> , 2008 , 78,	2.6	36
71	Quantum diffusion of the random Schrödinger evolution in the scaling limit. <i>Acta Mathematica</i> , 2008 , 200, 211-277	2.7	36
70	Phase Transition in the Density of States of Quantum Spin Glasses. <i>Mathematical Physics Analysis and Geometry</i> , 2014 , 17, 441-464	0.8	35
69	Universality of Sine-Kernel for Wigner Matrices with a Small Gaussian Perturbation. <i>Electronic Journal of Probability</i> , 2010 , 15,	1.1	35
68	Bulk universality for Wigner matrices. <i>Communications on Pure and Applied Mathematics</i> , 2010 , 63, NA-NA.5		34
67	Universality for general Wigner-type matrices. <i>Probability Theory and Related Fields</i> , 2017 , 169, 667-727	1.4	33
66	A Dynamical Approach to Random Matrix Theory. <i>Courant Lecture Notes in Mathematics</i> , 2017 ,	0	33
65	Using statistical tests on relative ecological indicator values to compare vegetation units □ Different approaches and weighting methods. <i>Ecological Indicators</i> , 2014 , 36, 441-446	5.8	30
64	Quantum Diffusion of the Random Schrödinger Evolution in the Scaling Limit II. The Recollision Diagrams. <i>Communications in Mathematical Physics</i> , 2007 , 271, 1-53	2	29
63	Gap universality of generalized Wigner and β -ensembles. <i>Journal of the European Mathematical Society</i> , 2015 , 17, 1927-2036	1.8	27
62	Singularities of Solutions to Quadratic Vector Equations on the Complex Upper Half-Plane. <i>Communications on Pure and Applied Mathematics</i> , 2017 , 70, 1672-1705	2.5	26

61	Quantum Dynamics with Mean Field Interactions: a New Approach. <i>Journal of Statistical Physics</i> , 2009 , 134, 859-870	1.5	25
60	Quantum Diffusion and Delocalization for Band Matrices with General Distribution. <i>Annales Henri Poincare</i> , 2011 , 12, 1227-1319	1.2	24
59	Quantum Diffusion for the Anderson Model in the Scaling Limit. <i>Annales Henri Poincare</i> , 2007 , 8, 621-685	1.2	23
58	Universality for random matrix flows with time-dependent density. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2017 , 53,	1.3	19
57	Universality for a class of random band matrices. <i>Advances in Theoretical and Mathematical Physics</i> , 2017 , 21, 739-800	1.3	19
56	Local inhomogeneous circular law. <i>Annals of Applied Probability</i> , 2018 , 28,	2	18
55	RANDOM MATRICES WITH SLOW CORRELATION DECAY. <i>Forum of Mathematics, Sigma</i> , 2019 , 7,	1.4	18
54	Stability of the matrix Dyson equation and random matrices with correlations. <i>Probability Theory and Related Fields</i> , 2019 , 173, 293-373	1.4	17
53	The Altshuler-Berklovskii Formulas for Random Band Matrices I: the Unimodular Case. <i>Communications in Mathematical Physics</i> , 2015 , 333, 1365-1416	2	16
52	A comparison of the vegetation of forested and non-forested solution dolines in Hungary: a preliminary study. <i>Biologia (Poland)</i> , 2014 , 69, 1339-1348	1.5	16
51	The Altshuler-Berklovskii Formulas for Random Band Matrices II: The General Case. <i>Annales Henri Poincare</i> , 2015 , 16, 709-799	1.2	14
50	Underground deserts below fertility islands? Woody species desiccate lower soil layers in sandy drylands. <i>Ecography</i> , 2020 , 43, 848-859	6.5	14
49	Local Spectral Statistics of Gaussian Matrices with Correlated Entries. <i>Journal of Statistical Physics</i> , 2016 , 163, 280-302	1.5	14
48	Decay of the Fourier transform of surfaces with vanishing curvature. <i>Mathematische Zeitschrift</i> , 2007 , 257, 261-294	0.7	13
47	Local Law of Addition of Random Matrices on Optimal Scale. <i>Communications in Mathematical Physics</i> , 2017 , 349, 947-990	2	12
46	Dynamical Formation of Correlations in a Bose-Einstein Condensate. <i>Communications in Mathematical Physics</i> , 2009 , 289, 1171-1210	2	11
45	THE LINEAR BOLTZMANN EQUATION AS THE LOW DENSITY LIMIT OF A RANDOM SCHRÖDINGER EQUATION. <i>Reviews in Mathematical Physics</i> , 2005 , 17, 669-743	1.2	11
44	Location of the spectrum of Kronecker random matrices. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2019 , 55,	1.3	10

43	Wegner Estimate and Anderson Localization for Random Magnetic Fields. <i>Communications in Mathematical Physics</i> , 2012 , 309, 507-542	2	10
42	Local stability of the free additive convolution. <i>Journal of Functional Analysis</i> , 2016 , 271, 672-719	1.4	10
41	Delocalization for a class of random block band matrices. <i>Probability Theory and Related Fields</i> , 2017 , 167, 673-776	1.4	9
40	Cusp Universality for Random Matrices I: Local Law and the Complex Hermitian Case. <i>Communications in Mathematical Physics</i> , 2020 , 378, 1203-1278	2	9
39	Fluctuations of Rectangular Young Diagrams of Interlacing Wigner Eigenvalues. <i>International Mathematics Research Notices</i> , 2018 , 2018, 3255-3298	0.8	9
38	Recovery of species richness lags behind functional recovery in restored grasslands. <i>Land Degradation and Development</i> , 2019 , 30, 1083-1094	4.4	9
37	River embankments mitigate the loss of grassland biodiversity in agricultural landscapes. <i>River Research and Applications</i> , 2020 , 36, 1160-1170	2.3	8
36	Anderson Localization at Band Edges for Random Magnetic Fields. <i>Journal of Statistical Physics</i> , 2012 , 146, 900-923	1.5	8
35	Properties of shrubforest edges: a case study from South Hungary. <i>Open Life Sciences</i> , 2011 , 6, 639-658	1.2	8
34	Relativistic Scott correction in self-generated magnetic fields. <i>Journal of Mathematical Physics</i> , 2012 , 53, 095202	1.2	8
33	Ground State Energy of Large Atoms in a Self-Generated Magnetic Field. <i>Communications in Mathematical Physics</i> , 2010 , 294, 229-249	2	8
32	Correlated random matrices: Band rigidity and edge universality. <i>Annals of Probability</i> , 2020 , 48,	1.9	8
31	Universality for random matrices and log-gases. <i>Current Developments in Mathematics</i> , 2012 , 2012, 59-132		8
30	Edge universality for non-Hermitian random matrices. <i>Probability Theory and Related Fields</i> , 2021 , 179, 1-28	1.4	8
29	High resistance of plant biodiversity to moderate native woody encroachment in loess steppe grassland fragments. <i>Applied Vegetation Science</i> , 2020 , 23, 175-184	3.3	7
28	Cusp universality for random matrices, II: The real symmetric case. <i>Pure and Applied Analysis</i> , 2019 , 1, 615-707	1	7
27	Convergence rate for spectral distribution of addition of random matrices. <i>Advances in Mathematics</i> , 2017 , 319, 251-291	1.3	6
26	Wegner Estimate for Random Magnetic Laplacian on (\mathbb{Z}^2) . <i>Annales Henri Poincare</i> , 2012 , 13, 1719-1731	1.2	6

25	Scott Correction for Large Atoms and Molecules in a Self-Generated Magnetic Field. <i>Communications in Mathematical Physics</i> , 2012 , 312, 847-882	2	6
24	UNIVERSALITY OF WIGNER RANDOM MATRICES 2010 ,		6
23	Unexpected ecotone dynamics of a sand dune vegetation complex following water table decline. <i>Journal of Plant Ecology</i> , 2015 , rtv032	1.7	5
22	Power Law Decay for Systems of Randomly Coupled Differential Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2018 , 50, 3271-3290	1.7	5
21	Local Eigenvalue Density for General MANOVA Matrices. <i>Journal of Statistical Physics</i> , 2013 , 152, 1003-1032	1.3	5
20	Fluctuations for differences of linear eigenvalue statistics for sample covariance matrices. <i>Random Matrices: Theory and Application</i> , 2020 , 09, 2050006	0.6	5
19	The role of randomization tests in vegetation boundary detection with moving split-window analysis. <i>Journal of Vegetation Science</i> , 2016 , 27, 1288-1296	3.1	5
18	Second Order Semiclassics with Self-Generated Magnetic Fields. <i>Annales Henri Poincare</i> , 2012 , 13, 671-730	1.2	4
17	Spectral radius of random matrices with independent entries. <i>Probability and Mathematical Physics</i> , 2021 , 2, 221-280	0.7	4
16	Quadratic Vector Equations On Complex Upper Half-Plane. <i>Memoirs of the American Mathematical Society</i> , 2019 , 261, 0-0	1.5	4
15	Fluctuation around the circular law for random matrices with real entries. <i>Electronic Journal of Probability</i> , 2021 , 26,	1.1	4
14	Spectral rigidity for addition of random matrices at the regular edge. <i>Journal of Functional Analysis</i> , 2020 , 279, 108639	1.4	3
13	Optimal lower bound on the least singular value of the shifted Ginibre ensemble. <i>Probability and Mathematical Physics</i> , 2020 , 1, 101-146	0.7	3
12	Eigenstate Thermalization Hypothesis for Wigner Matrices. <i>Communications in Mathematical Physics</i> , 2021 , 388, 1005	2	3
11	Local laws for polynomials of Wigner matrices. <i>Journal of Functional Analysis</i> , 2020 , 278, 108507	1.4	2
10	Local single ring theorem on optimal scale. <i>Annals of Probability</i> , 2019 , 47,	1.9	2
9	Thermalisation for Wigner matrices. <i>Journal of Functional Analysis</i> , 2022 , 282, 109394	1.4	2
8	Bounds on the norm of Wigner-type random matrices. <i>Random Matrices: Theory and Application</i> , 2019 , 08, 1950009	0.6	2

7	Central Limit Theorem for Linear Eigenvalue Statistics of Non-Hermitian Random Matrices. <i>Communications on Pure and Applied Mathematics</i> ,	2.5	2
6	Turning old foes into new allies: Harnessing drainage canals for biodiversity conservation in a desiccated European lowland region. <i>Journal of Applied Ecology</i> , 2022 , 59, 89	5.8	2
5	Turning old foes into new allies: Harnessing drainage canals for biodiversity conservation in desiccated novel ecosystems		2
4	Post-restoration grassland management overrides the effects of restoration methods in propagule-rich landscapes. <i>Ecological Applications</i> , 2021 , e02463	4.9	1
3	Spectral radius of random matrices with independent entries. <i>Probability and Mathematical Physics</i> , 2021 , 2, 1-60	0.7	1
2	On the support of the free additive convolution. <i>Journal d'Analyse Mathématique</i> , 2020 , 142, 323-348	0.8	0
1	Scattering in Quantum Dots via Noncommutative Rational Functions. <i>Annales Henri Poincaré</i> , 1	1.2	0