Robert J Berman

List of Publications by Year
in descending order

33	1,071	471509	434195
33 papers	**1,071** citations	**17** h-index	**31** g-index
33 all docs	**33** docs citations	**33** times ranked	**222** citing authors

#	ARTICLE	IF	CITATIONS
1	K-polystability of Q-Fano varieties admitting Kähler-Einstein metrics. Inventiones Mathematicae, 2016, 203, 973-1025.	2.5	115
2	A variational approach to complex Monge-Ampère equations. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2013, 117, 179-245.	4.3	110
3	Growth of balls of holomorphic sections and energy at equilibrium. Inventiones Mathematicae, 2010, 181, 337-394.	2.5	92
4	A thermodynamical formalism for Monge–Ampère equations, Moser–Trudinger inequalities and Kähler–Einstein metrics. Advances in Mathematics, 2013, 248, 1254-1297.	1.1	77
5	Fekete points and convergence towards equilibrium measures on complex manifolds. Acta Mathematica, 2011, 207, 1-27.	3.9	62
6	Kähler–Einstein metrics and the Kähler–Ricci flow on log Fano varieties. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 27-89.	0.9	60
7	Convexity of the ?-energy on the space of Kähler metrics and uniqueness of extremal metrics. Journal of the American Mathematical Society, 2017, 30, 1165-1196.	3.9	54
8	Real Monge-Ampère equations and Kähler-Ricci solitons on toric log Fano varieties. Annales De La Faculté Des Sciences De Toulouse, 2013, 22, 649-711.	0.3	50
9	A variational approach to the Yau–Tian–Donaldson conjecture. Journal of the American Mathematical Society, 2021, 34, 605-652.	3.9	47
10	Regularity of Plurisubharmonic Upper Envelopes in Big Cohomology Classes. Progress in Mathematics, 2012, , 39-66.	0.3	45
11	Bergman kernels and equilibrium measures for line bundles over projective manifolds. American Journal of Mathematics, 2009, 131, 1485-1524.	1.1	44
12	Convexity of the extended K-energy and the large time behavior of the weak Calabi flow. Geometry and Topology, 2017, 21, 2945-2988.	1.3	43
13	Bergman kernels for weighted polynomials and weighted equilibrium measures of $\mathbb{C}^{n}$. Indiana University Mathematics Journal, 2009, 58, 1921-1946.	0.9	37
14	Kähler–Einstein Metrics on Stable Varieties and log Canonical Pairs. Geometric and Functional Analysis, 2014, 24, 1683-1730.	1.8	36
15	Determinantal Point Processes and Fermions on Complex Manifolds: Large Deviations and Bosonization. Communications in Mathematical Physics, 2014, 327, 1-47.	2.2	29
16	The Sinkhorn algorithm, parabolic optimal transport and geometric Monge–Ampère equations. Numerische Mathematik, 2020, 145, 771-836.	1.9	23
17	Bergman kernels and local holomorphic Morse inequalities. Mathematische Zeitschrift, 2004, 248, 325.	0.9	21
18	From Monge–Ampère equations to envelopes and geodesic rays in the zero temperature limit. Mathematische Zeitschrift, 2019, 291, 365-394.	0.9	20

#	Article	IF	Citations
19	Super Toeplitz operators on line bundles. Journal of Geometric Analysis, 2006, 16, 1-22.	1.0	11
20	Large Deviations for Gibbs Measures with Singular Hamiltonians and Emergence of Kähler–Einstein Metrics. Communications in Mathematical Physics, 2017, 354, 1133-1172.	2.2	11
21	The volume of Kähler–Einstein Fano varieties and convex bodies. Journal Fur Die Reine Und Angewandte Mathematik, 2017, 2017, .	0.9	11
22	On Large Deviations for Gibbs Measures, Mean Energy and Gamma-Convergence. Constructive Approximation, 2018, 48, 3-30.	3.0	11
23	Sharp Asymptotics for Toeplitz Determinants and Convergence Towards the Gaussian Free Field on Riemann Surfaces. International Mathematics Research Notices, 2012, 2012, 5031-5062.	1.0	10
24	Convergence Rates for Discretized Monge–Ampère Equations and Quantitative Stability of Optimal Transport. Foundations of Computational Mathematics, 2021, 21, 1099-1140.	2.5	10
25	Kähler-Einstein metrics emerging from free fermions and statistical mechanics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
26	An arithmetic Hilbert–Samuel theorem for singular hermitian line bundles and cusp forms. Compositio Mathematica, 2014, 150, 1703-1728.	0.8	9
27	Relative Kähler–Ricci flows and their quantization. Analysis and PDE, 2013, 6, 131-180.	1.4	8
28	Determinantal Point Processes and Fermions on Polarized Complex Manifolds: Bulk Universality. Springer Proceedings in Mathematics and Statistics, 2018, , 341-393.	0.2	6
29	Propagation of chaos, Wasserstein gradient flows and toric Kähler–Einstein metrics. Analysis and PDE, 2018, 11, 1343-1380.	1.4	3
30	Moser–Trudinger type inequalities for complex Monge–Ampère operators and Aubin's "hypothèse fondamentale". , 2022, 31, 595-645.		3
31	An invitation to Kähler–Einstein metrics and random point processes. Journal of Differential Geometry, 2018, 23, 35-87.	1.0	2
32	Emergent Sasaki-Einstein geometry and AdS/CFT. Nature Communications, 2022, 13, 365.	12.8	2
33	Priors leading to well-behaved Coulomb and Riesz gases versus zeroth-order phase transitions – a potential-theoretic characterization. Electronic Journal of Probability, 2021, 26, .	1.0	0