

# Robert J Berman

## List of Publications by Year in descending order

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33  
papers

1,071  
citations

471509

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434195

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g-index

33  
all docs

33  
docs citations

33  
times ranked

222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent Sasaki-Einstein geometry and AdS/CFT. Nature Communications, 2022, 13, 365.	12.8	2
2	Moser's Trudinger type inequalities for complex Monge-Ampère operators and Aubin's conjecture, 2022, 31, 595-645.		3
3	A variational approach to the Yau-Tian-Donaldson conjecture. Journal of the American Mathematical Society, 2021, 34, 605-652.	3.9	47
4	Convergence Rates for Discretized Monge-Ampère Equations and Quantitative Stability of Optimal Transport. Foundations of Computational Mathematics, 2021, 21, 1099-1140.	2.5	10
5	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
6	The Sinkhorn algorithm, parabolic optimal transport and geometric Monge-Ampère equations. Numerische Mathematik, 2020, 145, 771-836.	1.9	23
7	From Monge-Ampère equations to envelopes and geodesic rays in the zero temperature limit. Mathematische Zeitschrift, 2019, 291, 365-394.	0.9	20
8	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
9	On Large Deviations for Gibbs Measures, Mean Energy and Gamma-Convergence. Constructive Approximation, 2018, 48, 3-30.	3.0	11
10	Propagation of chaos, Wasserstein gradient flows and toric Kähler-Einstein metrics. Analysis and PDE, 2018, 11, 1343-1380.	1.4	3
11	Determinantal Point Processes and Fermions on Polarized Complex Manifolds: Bulk Universality. Springer Proceedings in Mathematics and Statistics, 2018, , 341-393.	0.2	6
12	An invitation to Kähler-Einstein metrics and random point processes. Journal of Differential Geometry, 2018, 23, 35-87.	1.0	2
13	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
14	Convexity of the $\chi$ -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
15	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
16	The volume of Kähler-Einstein Fano varieties and convex bodies. Journal Fur Die Reine Und Angewandte Mathematik, 2017, 2017, .	0.9	11
17	K-polystability of Q-Fano varieties admitting Kähler-Einstein metrics. Inventiones Mathematicae, 2016, 203, 973-1025.	2.5	115
18	An arithmetic Hilbert-Samuel theorem for singular hermitian line bundles and cusp forms. Compositio Mathematica, 2014, 150, 1703-1728.	0.8	9

#	ARTICLE	IF	CITATIONS
19	Determinantal Point Processes and Fermions on Complex Manifolds: Large Deviations and Bosonization. Communications in Mathematical Physics, 2014, 327, 1-47.	2.2	29
20	Kähler-Einstein Metrics on Stable Varieties and log Canonical Pairs. Geometric and Functional Analysis, 2014, 24, 1683-1730.	1.8	36
21	A variational approach to complex Monge-Ampère equations. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2013, 117, 179-245.	4.3	110
22	A thermodynamical formalism for Monge-Ampère equations, Moser-Trudinger inequalities and Kähler-Einstein metrics. Advances in Mathematics, 2013, 248, 1254-1297.	1.1	77
23	Relative Kähler-Ricci flows and their quantization. Analysis and PDE, 2013, 6, 131-180.	1.4	8
24	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
25	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
26	Regularity of Plurisubharmonic Upper Envelopes in Big Cohomology Classes. Progress in Mathematics, 2012, , 39-66.	0.3	45
27	Fekete points and convergence towards equilibrium measures on complex manifolds. Acta Mathematica, 2011, 207, 1-27.	3.9	62
28	Kähler-Einstein metrics emerging from free fermions and statistical mechanics. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
29	Growth of balls of holomorphic sections and energy at equilibrium. Inventiones Mathematicae, 2010, 181, 337-394.	2.5	92
30	Bergman kernels for weighted polynomials and weighted equilibrium measures of $\mathbb{C}^n$ . Indiana University Mathematics Journal, 2009, 58, 1921-1946.	0.9	37
31	Bergman kernels and equilibrium measures for line bundles over projective manifolds. American Journal of Mathematics, 2009, 131, 1485-1524.	1.1	44
32	Super Toeplitz operators on line bundles. Journal of Geometric Analysis, 2006, 16, 1-22.	1.0	11
33	Bergman kernels and local holomorphic Morse inequalities. Mathematische Zeitschrift, 2004, 248, 325.	0.9	21