Michel Talagrand

List of Publications by Year
in descending order

127 papers	3,151 citations	186265 28 h-index	175258 52 g-index
128 all docs	128 docs citations	128 times ranked	836 citing authors

#	Article	IF	Citations
1	New concentration inequalities in product spaces. Inventiones Mathematicae, 1996, 126, 505-563.	2.5	335
2	Regularity of gaussian processes. Acta Mathematica, 1987, 159, 99-149.	3.9	185
3	Majorizing measures: the generic chaining. Annals of Probability, 1996, 24, 1049.	1.8	176
4	A new look at independence. Annals of Probability, 1996, 24, 1.	1.8	172
5	Espaces de Banach Faiblement Îº-Analytiques. Annals of Mathematics, 1979, 110, 407.	4.2	163
6	Compacts de fonctions mesurables et filtres non mesurables. Studia Mathematica, 1980, 67, 13-43.	0.7	100
7	Bounds for diluted mean-fields spin glass models. Probability Theory and Related Fields, 2004, 130, 319-336.	1.8	99
8	Free energy of the spherical mean field model. Probability Theory and Related Fields, 2006, 134, 339-382.	1.8	86
9	Martingale Inequalities and NP-Complete Problems. Mathematics of Operations Research, 1987, 12, 177-181.	1.3	81
10	Rigorous low-temperature results for the mean field p -spins interaction model. Probability Theory and Related Fields, 2000, 117, 303-360.	1.8	66
11	How much are increasing sets positively correlated?. Combinatorica, 1996, 16, 243-258.	1.2	62
12	Rigorous results for the Hopfield model with many patterns. Probability Theory and Related Fields, 1998, 110, 177-275.	1.8	60
13	A decomposition theorem for additive set-functions, with applications to pettis integrals and ergodic means. Mathematische Zeitschrift, 1979, 168, 117-142.	0.9	59
14	The Sherrington-Kirkpatrick model: a challenge for mathematicians. Probability Theory and Related Fields, 1998, 110, 109-176.	1.8	56
15	Cotype and (q, 1)-summing norm in a Banach space. Inventiones Mathematicae, 1992, 110, 545-556.	2.5	54
16	The Supremum of Some Canonical Processes. American Journal of Mathematics, 1994, 116, 283.	1.1	51
17	Cotype of operators fromC(K). Inventiones Mathematicae, 1992, 107, 1-40.	2.5	47
18	Renormages de Quelquesâ„'(K). Israel Journal of Mathematics, 1986, 54, 327-334.	0.8	41

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19	Espaces de Baire et espaces de Namioka. Mathematische Annalen, 1985, 270, 159-164.	1.4	39
20	A Sharp Deviation Inequality for the Stochastic Traveling Salesman Problem. Annals of Probability, 1989, 17, 1.	1.8	38
21	Parisi measures. Journal of Functional Analysis, 2006, 231, 269-286.	1.4	38
22	Un Nouveau â„" (K) Qui Possede la Propriete de Grothendieck. Israel Journal of Mathematics, 1980, 37, 181-191.	0.8	37
23	The Glivenko-Cantelli problem, ten years later. Journal of Theoretical Probability, 1996, 9, 371-384.	0.8	36
24	Multiple points of trajectories of multiparameter fractional Brownian motion. Probability Theory and Related Fields, 1998, 112, 545-563.	1.8	36
25	Construction of pure states in mean field models for spin glasses. Probability Theory and Related Fields, 2010, 148, 601-643.	1.8	32
26	Lower classes for fractional Brownian motion. Journal of Theoretical Probability, 1996, 9, 191-213.	0.8	30
27	La propriete de Dunford-Pettis dansC (K, E) etL 1(E). Israel Journal of Mathematics, 1983, 44, 317-321.	0.8	29
28	A new countably determined Banach space. Israel Journal of Mathematics, 1984, 47, 75-80.	0.8	28
29	Embedding Subspaces of L 1 into l N 1. Proceedings of the American Mathematical Society, 1990, 108, 363.	0.8	28
30	On Line Bin Packing with Items of Random Size. Mathematics of Operations Research, 1993, 18, 438-445.	1.3	28
31	Sections of smooth convex bodies via majorizing measures. Acta Mathematica, 1995, 175, 273-300.	3.9	26
32	Sur l'intï¿½grabilitï¿½ des vecteurs gaussiens. Zeitschrift FÃ¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1984, 68, 1-8.	0.8	25
33	Type, infratype and the Elton-Pajor theorem. Inventiones Mathematicae, 1992, 107, 41-59.	2.5	25
34	Optimal Bin Packing with Items of Random Sizes III. SIAM Journal on Computing, 1989, 18, 473-486.	1.0	24
35	On boundaries and influences. Combinatorica, 1997, 17, 275-285.	1.2	24
36	Fractional Brownian motion and packing dimension. Journal of Theoretical Probability, 1996, 9, 579-593.	0.8	23

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37	Espaces de Banach representables. Israel Journal of Mathematics, 1982, 41, 321-330.	0.8	22
38	Uniform convexity and the distribution of the norm for a Gaussian measure. Probability Theory and Related Fields, 1986, 71, 59-67.	1.8	21
39	On the Convexified Sauerâ€"Shelah Theorem. Journal of Combinatorial Theory Series B, 1997, 69, 183-192.	1.0	20
40	Deux gÃ©nÃ©ralisations dâ€™un thÃ©orÃ¨me de I. Namioka. Pacific Journal of Mathematics, 1979, 81, 239-251.	0.5	20
41	Donsker classes of sets. Probability Theory and Related Fields, 1988, 78, 169-191.	1.8	19
42	A note on the selection of random variables under a sum constraint. Journal of Applied Probability, 1991, 28, 919-923.	0.7	19
43	Exact bounds for the stochastic upward matching problem. Transactions of the American Mathematical Society, 1988, 307, 109-125.	0.9	19
44	CompacitÃ© extrÃ©male. Proceedings of the American Mathematical Society, 1980, 80, 68-68.	0.8	18
45	A simple example of pathological submeasure. Mathematische Annalen, 1980, 252, 97-102.	1.4	17
46	Selecting a proportion of characters. Israel Journal of Mathematics, 1998, 108, 173-191.	0.8	17
47	Exponential inequalities and convergence of moments in the replica-symmetric regime of the Hopfield model. Annals of Probability, 2000, 28, 1393.	1.8	17
48	Title is missing!. Indiana University Mathematics Journal, 1978, 27, 1001.	0.9	17
49	Separabilite vague dans lâ€™espace des mesures sur un compact. Israel Journal of Mathematics, 1980, 37, 171-180.	0.8	16
50	Donsker Classes and Random Geometry. Annals of Probability, 1987, 15, 1327.	1.8	16
51	The law of the iterated logarithm for empirical processes on Vapnik-ÄŒervonenkis classes. Journal of Multivariate Analysis, 1989, 30, 155-166.	1.0	16
52	The high temperature case for the random K-sat problem. Probability Theory and Related Fields, 2001, 119, 187-212.	1.8	16
53	Les mesures vectorielles Ã valeurs dans L^0 sont bornÃ©es. Annales Scientifiques De L'Ecole Normale Superieure, 1981, 14, 445-452.	0.8	16
54	Optimal Bin Packing with Items of Random Sizes II. SIAM Journal on Computing, 1989, 18, 139-151.	1.0	15

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55	Replica symmetry breaking and exponential inequalities for the Sherrington-Kirkpatrick model. Annals of Probability, 2000, 28, 1018.	1.8	15
56	Uniform bound in the central limit theorem for Banach space valued dependent random variables. Journal of Multivariate Analysis, 1986, 20, 303-320.	1.0	14
57	Martingale inequalities and the Jackknife estimate of variance. Statistics and Probability Letters, 1986, 4, 5-6.	0.7	13
58	A conjecture on convolution operators, and a non-Dunford-Pettis operator onL 1. Israel Journal of Mathematics, 1989, 68, 82-88.	0.8	13
59	A Concentration Inequality for theK-Median Problem. Mathematics of Operations Research, 1989, 14, 189-202.	1.3	13
60	Martingale Inequalities, Interpolation and NP-Complete Problems. Mathematics of Operations Research, 1989, 14, 91-96.	1.3	12
61	Scaling and non-standard matching theorems. Comptes Rendus Mathematique, 2018, 356, 692-695.	0.3	11
62	Filtres: mesurabilité, rapidité, propriété de Baire forte. Studia Mathematica, 1982, 74, 283-291.	0.7	11
63	On CS â€closed sets. Mathematika, 1979, 26, 30-32.	0.5	10
64	Dual banach lattices and Banach lattices with the Radon-Nikodym property. Israel Journal of Mathematics, 1981, 38, 46-50.	0.8	10
65	Intersecting random half-spaces: toward the Gardner-Derrida formula. Annals of Probability, 2000, 28, 725.	1.8	10
66	Propriété de Nikodym et propriété de Grothendieck. Studia Mathematica, 1984, 78, 165-171.	0.7	10
67	Capacités invariantes extrémales. Annales De L'Institut Fourier, 1978, 28, 79-146.	0.6	10
68	Necessary Conditions for Sample Boundedness of p-Stable Processes. Annals of Probability, 1988, 16, 1584.	1.8	9
69	Sudakov-type minoration for gaussian chaos processes. Israel Journal of Mathematics, 1992, 79, 207-224.	0.8	9
70	Concentration and influences. Israel Journal of Mathematics, 1999, 111, 275-284.	0.8	9
71	Vapnik--Chervonenkis type conditions and uniform Donsker classes of functions. Annals of Probability, 2003, 31, 1565.	1.8	9
72	La ?-rï¿½gularitï¿½ des mesures Gaussiennes. Zeitschrift Für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 57, 213-221.	0.8	8

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73	On-Line Bin Packing of Items of Random Sizes, II. SIAM Journal on Computing, 1993, 22, 1251-1256.	1.0	8
74	SELF ORGANIZATION IN THE LOW TEMPERATURE REGION OF A SPIN GLASS MODEL. Reviews in Mathematical Physics, 2003, 15, 1-78.	1.7	8
75	Sur LaK-Analyticite De Certains Espaces Dâ€™operateurs. Israel Journal of Mathematics, 1979, 32, 124-130.	0.8	7
76	On Berry-Esseen type bounds for m-dependent random variables valued in certain banach spaces. Zeitschrift FÃ¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 58, 433-451.	0.8	7
77	La structure des espaces de Banach reticules ayantla propriete de Radon-Nikodym. Israel Journal of Mathematics, 1983, 44, 213-220.	0.8	7
78	Banach sublattices of weakL 1. Israel Journal of Mathematics, 1987, 59, 257-271.	0.8	7
79	Self averaging and the space of interactions in neural networks. Random Structures and Algorithms, 1999, 14, 199-213.	1.1	7
80	Selector processes on classes of sets. Probability Theory and Related Fields, 2006, 135, 471-486.	1.8	7
81	Choquet simplexes whose set of extreme points is K-analytic. Annales De L'Institut Fourier, 1985, 35, 195-206.	0.6	7
82	The three-space problem for ?Â1. Journal of the American Mathematical Society, 1990, 3, 9-29.	3.9	7
83	Non existence de relï¿½vement pour certaines mesures finiement additives et retractï¿½s deï¿½?. Mathematische Annalen, 1981, 256, 63-66.	1.4	6
84	Multidimensional Optimal Bin Packing with Items of Random Size. Mathematics of Operations Research, 1991, 16, 490-503.	1.3	6
85	Certaines formes linÃ©aires pathologiques sur un espace de Banach dual. Israel Journal of Mathematics, 1980, 35, 171-176.	0.8	5
86	Dans Un Espace de Banach Reticule Solide, La Propriete de Radon-Nikodym et Celle de Krein-Milman Sont Equivalentes. Proceedings of the American Mathematical Society, 1981, 81, 93.	0.8	5
87	Mesures Gaussiennes sur un espace localement convexe. Zeitschrift FÃ¼r Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1983, 64, 181-209.	0.8	5
88	The Complete Convergence of Best Fit Decreasing. SIAM Journal on Computing, 1989, 18, 909-918.	1.0	5
89	Multiple levels of symmetry breaking. Probability Theory and Related Fields, 2000, 117, 449-466.	1.8	5
90	Optimal Bin Covering with Items of Random Size. SIAM Journal on Computing, 1989, 18, 487-498.	1.0	4

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91	An assignment problem at high temperature. Annals of Probability, 2003, 31, 818.	1.8	4
92	A general form of certain mean field models for spin glasses. Probability Theory and Related Fields, 2009, 143, 97-111.	1.8	4
93	Liftings of functions with values in a completely regular space. Proceedings of the American Mathematical Society, 1980, 78, 345-345.	0.8	4
94	Quand l'espace des mesures à variation bornée est-il faiblement séquentiellement complet?. Proceedings of the American Mathematical Society, 1984, 90, 285-285.	0.8	3
95	Chevet's theorem for stable processes II. Journal of Theoretical Probability, 1988, 1, 65-92.	0.8	3
96	The Structure of Sign-Invariant GB-Sets and of Certain Gaussian Measures. Annals of Probability, 1988, 16, 172.	1.8	3
97	Dual bin packing with items of random sizes. Mathematical Programming, 1993, 58, 229-242.	2.4	3
98	Orlicz property and cotype in symmetric sequence spaces. Israel Journal of Mathematics, 1994, 87, 181-192.	0.8	3
99	On the Hopfield model at the critical temperature. Probability Theory and Related Fields, 2001, 121, 237-268.	1.8	3
100	A Choquet theorem for general subspaces of vector-valued functions. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 98, 323-326.	0.4	2
101	Derivation, $L^{\hat{}}$-Bounded Martingales and Covering Conditions. Transactions of the American Mathematical Society, 1986, 293, 257.	0.9	2
102	On the k-center problem with many centers. Operations Research Letters, 1989, 8, 309-314.	0.7	2
103	The Complete Convergence of First Fit Decreasing. SIAM Journal on Computing, 1989, 18, 919-938.	1.0	2
104	On the long edges in the shortest tour through N random points. Combinatorica, 1992, 12, 323-330.	1.2	2
105	Packing random items of three colors. Combinatorica, 1992, 12, 331-350.	1.2	2
106	Convergence in Distribution for Best-Fit Decreasing. SIAM Journal on Computing, 1996, 25, 894-906.	1.0	2
107	A General Lower Bound for Gaussian Chaos. Journal of Theoretical Probability, 1998, 11, 289-301.	0.8	2
108	Title is missing!. Journal of Theoretical Probability, 1998, 11, 157-179.	0.8	2

#	ARTICLE	IF	CITATIONS
109	On the Gaussian Perceptron at High Temperature. Mathematical Physics Analysis and Geometry, 2002, 5, 77-99.	1.0	2
110	Type and infratype in symmetric sequence spaces. Israel Journal of Mathematics, 2004, 143, 157-180.	0.8	2
111	Three convex sets. Proceedings of the American Mathematical Society, 1983, 89, 601-607.	0.8	2
112	Un espace de Banach réticulé qui a presque la propriété de Radon-Nikodym. Studia Mathematica, 1983, 76, 255-266.	0.7	2
113	La pathologie des relèvements invariants. Proceedings of the American Mathematical Society, 1982, 84, 379-382.	0.8	2
114	Invariant means on an ideal. Transactions of the American Mathematical Society, 1985, 288, 257-272.	0.9	1
115	Complete Convergence of the Directed TSP. Mathematics of Operations Research, 1991, 16, 881-887.	1.3	1
116	The Random Weighted Interval Packing Problem: The Intermediate Density Case. Mathematics of Operations Research, 2000, 25, 105-117.	1.3	1
117	A mean-field spin glass model based on diluted $$V$$ V -statistics. Probability Theory and Related Fields, 2016, 165, 401-445.	1.8	1
118	Barycentres de sous-mesures pathologiques. Mathematische Annalen, 1979, 242, 97-102.	1.4	0
119	Points extrémaux dans le dual de $Lsp{1}(mu ,,E)$. Proceedings of the American Mathematical Society, 1984, 91, 265-265.	0.8	0
120	On vector-valued random Fourier series. Journal of Theoretical Probability, 1992, 5, 327-331.	0.8	0
121	Expected wasted space of optimal simple rectangle packing. Probability Theory and Related Fields, 2005, 131, 145-153.	1.8	0
122	A mean field model for spin glasses based on a 2-level perceptron. Journal of Mathematical Physics, 2008, 49, 125212.	1.1	0
123	Sommes vectorielles d'ensembles de mesure nulle. Annales De L'Institut Fourier, 1976, 26, 137-172.	0.6	0
124	On spreading models in $Lsp 1(E)$. Annales Scientifiques De L'Ecole Normale Superieure, 1984, 17, 433-438.	0.8	0
125	Matching Theorems. Ergebnisse Der Mathematik Und Ihrer Grenzgebiete, 2021, , 111-162.	0.3	0
126	What is the satisfiability threshold of random balanced Boolean expressions?. Random Structures and Algorithms, 0, , .	1.1	0

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127	Ergodic measures, almost periodic points and discrete orbits. Illinois Journal of Mathematics, 1981, 25, .	0.1	0