

# Michel Talagrand

## List of Publications by Year in descending order

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127  
papers

3,151  
citations

186265

28  
h-index

175258

52  
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128  
all docs

128  
docs citations

128  
times ranked

836  
citing authors

#	ARTICLE	IF	CITATIONS
1	Matching Theorems. <i>Ergebnisse Der Mathematik Und Ihrer Grenzgebiete</i> , 2021, , 111-162.	0.3	0
2	Scaling and non-standard matching theorems. <i>Comptes Rendus Mathematique</i> , 2018, 356, 692-695.	0.3	11
3	A mean-field spin glass model based on diluted $\mathbb{V}$ -statistics. <i>Probability Theory and Related Fields</i> , 2016, 165, 401-445.	1.8	1
4	Construction of pure states in mean field models for spin glasses. <i>Probability Theory and Related Fields</i> , 2010, 148, 601-643.	1.8	32
5	A general form of certain mean field models for spin glasses. <i>Probability Theory and Related Fields</i> , 2009, 143, 97-111.	1.8	4
6	A mean field model for spin glasses based on a 2-level perceptron. <i>Journal of Mathematical Physics</i> , 2008, 49, 125212.	1.1	0
7	Parisi measures. <i>Journal of Functional Analysis</i> , 2006, 231, 269-286.	1.4	38
8	Selector processes on classes of sets. <i>Probability Theory and Related Fields</i> , 2006, 135, 471-486.	1.8	7
9	Free energy of the spherical mean field model. <i>Probability Theory and Related Fields</i> , 2006, 134, 339-382.	1.8	86
10	Expected wasted space of optimal simple rectangle packing. <i>Probability Theory and Related Fields</i> , 2005, 131, 145-153.	1.8	0
11	Bounds for diluted mean-fields spin glass models. <i>Probability Theory and Related Fields</i> , 2004, 130, 319-336.	1.8	99
12	Type and infratype in symmetric sequence spaces. <i>Israel Journal of Mathematics</i> , 2004, 143, 157-180.	0.8	2
13	SELF ORGANIZATION IN THE LOW TEMPERATURE REGION OF A SPIN GLASS MODEL. <i>Reviews in Mathematical Physics</i> , 2003, 15, 1-78.	1.7	8
14	Vapnik–Chervonenkis type conditions and uniform Donsker classes of functions. <i>Annals of Probability</i> , 2003, 31, 1565.	1.8	9
15	An assignment problem at high temperature. <i>Annals of Probability</i> , 2003, 31, 818.	1.8	4
16	On the Gaussian Perceptron at High Temperature. <i>Mathematical Physics Analysis and Geometry</i> , 2002, 5, 77-99.	1.0	2
17	The high temperature case for the random K-sat problem. <i>Probability Theory and Related Fields</i> , 2001, 119, 187-212.	1.8	16
18	On the Hopfield model at the critical temperature. <i>Probability Theory and Related Fields</i> , 2001, 121, 237-268.	1.8	3

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19	The Random Weighted Interval Packing Problem: The Intermediate Density Case. <i>Mathematics of Operations Research</i> , 2000, 25, 105-117.	1.3	1
20	Multiple levels of symmetry breaking. <i>Probability Theory and Related Fields</i> , 2000, 117, 449-466.	1.8	5
21	Rigorous low-temperature results for the mean field $p$ -spins interaction model. <i>Probability Theory and Related Fields</i> , 2000, 117, 303-360.	1.8	66
22	Replica symmetry breaking and exponential inequalities for the Sherrington-Kirkpatrick model. <i>Annals of Probability</i> , 2000, 28, 1018.	1.8	15
23	Intersecting random half-spaces: toward the Gardner-Derrida formula. <i>Annals of Probability</i> , 2000, 28, 725.	1.8	10
24	Exponential inequalities and convergence of moments in the replica-symmetric regime of the Hopfield model. <i>Annals of Probability</i> , 2000, 28, 1393.	1.8	17
25	Concentration and influences. <i>Israel Journal of Mathematics</i> , 1999, 111, 275-284.	0.8	9
26	Self averaging and the space of interactions in neural networks. <i>Random Structures and Algorithms</i> , 1999, 14, 199-213.	1.1	7
27	A General Lower Bound for Gaussian Chaos. <i>Journal of Theoretical Probability</i> , 1998, 11, 289-301.	0.8	2
28	Title is missing!. <i>Journal of Theoretical Probability</i> , 1998, 11, 157-179.	0.8	2
29	The Sherrington-Kirkpatrick model: a challenge for mathematicians. <i>Probability Theory and Related Fields</i> , 1998, 110, 109-176.	1.8	56
30	Rigorous results for the Hopfield model with many patterns. <i>Probability Theory and Related Fields</i> , 1998, 110, 177-275.	1.8	60
31	Multiple points of trajectories of multiparameter fractional Brownian motion. <i>Probability Theory and Related Fields</i> , 1998, 112, 545-563.	1.8	36
32	Selecting a proportion of characters. <i>Israel Journal of Mathematics</i> , 1998, 108, 173-191.	0.8	17
33	On boundaries and influences. <i>Combinatorica</i> , 1997, 17, 275-285.	1.2	24
34	On the Convexified Sauer-Shelah Theorem. <i>Journal of Combinatorial Theory Series B</i> , 1997, 69, 183-192.	1.0	20
35	Convergence in Distribution for Best-Fit Decreasing. <i>SIAM Journal on Computing</i> , 1996, 25, 894-906.	1.0	2
36	A new look at independence. <i>Annals of Probability</i> , 1996, 24, 1.	1.8	172

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37	Majorizing measures: the generic chaining. <i>Annals of Probability</i> , 1996, 24, 1049.	1.8	176
38	Lower classes for fractional Brownian motion. <i>Journal of Theoretical Probability</i> , 1996, 9, 191-213.	0.8	30
39	Fractional Brownian motion and packing dimension. <i>Journal of Theoretical Probability</i> , 1996, 9, 579-593.	0.8	23
40	The Glivenko-Cantelli problem, ten years later. <i>Journal of Theoretical Probability</i> , 1996, 9, 371-384.	0.8	36
41	How much are increasing sets positively correlated?. <i>Combinatorica</i> , 1996, 16, 243-258.	1.2	62
42	New concentration inequalities in product spaces. <i>Inventiones Mathematicae</i> , 1996, 126, 505-563.	2.5	335
43	Sections of smooth convex bodies via majorizing measures. <i>Acta Mathematica</i> , 1995, 175, 273-300.	3.9	26
44	Orlicz property and cotype in symmetric sequence spaces. <i>Israel Journal of Mathematics</i> , 1994, 87, 181-192.	0.8	3
45	The Supremum of Some Canonical Processes. <i>American Journal of Mathematics</i> , 1994, 116, 283.	1.1	51
46	Dual bin packing with items of random sizes. <i>Mathematical Programming</i> , 1993, 58, 229-242.	2.4	3
47	On-Line Bin Packing of Items of Random Sizes, II. <i>SIAM Journal on Computing</i> , 1993, 22, 1251-1256.	1.0	8
48	On Line Bin Packing with Items of Random Size. <i>Mathematics of Operations Research</i> , 1993, 18, 438-445.	1.3	28
49	Cotype and $(q, 1)$ -summing norm in a Banach space. <i>Inventiones Mathematicae</i> , 1992, 110, 545-556.	2.5	54
50	Cotype of operators from $C(K)$ . <i>Inventiones Mathematicae</i> , 1992, 107, 1-40.	2.5	47
51	Type, infratype and the Elton-Pajor theorem. <i>Inventiones Mathematicae</i> , 1992, 107, 41-59.	2.5	25
52	On vector-valued random Fourier series. <i>Journal of Theoretical Probability</i> , 1992, 5, 327-331.	0.8	0
53	Sudakov-type minoration for gaussian chaos processes. <i>Israel Journal of Mathematics</i> , 1992, 79, 207-224.	0.8	9
54	On the long edges in the shortest tour through $N$ random points. <i>Combinatorica</i> , 1992, 12, 323-330.	1.2	2

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55	Packing random items of three colors. <i>Combinatorica</i> , 1992, 12, 331-350.	1.2	2
56	Complete Convergence of the Directed TSP. <i>Mathematics of Operations Research</i> , 1991, 16, 881-887.	1.3	1
57	Multidimensional Optimal Bin Packing with Items of Random Size. <i>Mathematics of Operations Research</i> , 1991, 16, 490-503.	1.3	6
58	A note on the selection of random variables under a sum constraint. <i>Journal of Applied Probability</i> , 1991, 28, 919-923.	0.7	19
59	Embedding Subspaces of $L^1$ into $l^1$ . <i>Proceedings of the American Mathematical Society</i> , 1990, 108, 363.	0.8	28
60	The three-space problem for $\ell^1$ . <i>Journal of the American Mathematical Society</i> , 1990, 3, 9-29.	3.9	7
61	A conjecture on convolution operators, and a non-Dunford-Pettis operator on $L^1$ . <i>Israel Journal of Mathematics</i> , 1989, 68, 82-88.	0.8	13
62	On the $k$ -center problem with many centers. <i>Operations Research Letters</i> , 1989, 8, 309-314.	0.7	2
63	The law of the iterated logarithm for empirical processes on Vapnik-Červonenkis classes. <i>Journal of Multivariate Analysis</i> , 1989, 30, 155-166.	1.0	16
64	Optimal Bin Packing with Items of Random Sizes III. <i>SIAM Journal on Computing</i> , 1989, 18, 473-486.	1.0	24
65	Optimal Bin Covering with Items of Random Size. <i>SIAM Journal on Computing</i> , 1989, 18, 487-498.	1.0	4
66	The Complete Convergence of Best Fit Decreasing. <i>SIAM Journal on Computing</i> , 1989, 18, 909-918.	1.0	5
67	The Complete Convergence of First Fit Decreasing. <i>SIAM Journal on Computing</i> , 1989, 18, 919-938.	1.0	2
68	Optimal Bin Packing with Items of Random Sizes II. <i>SIAM Journal on Computing</i> , 1989, 18, 139-151.	1.0	15
69	A Sharp Deviation Inequality for the Stochastic Traveling Salesman Problem. <i>Annals of Probability</i> , 1989, 17, 1.	1.8	38
70	Martingale Inequalities, Interpolation and NP-Complete Problems. <i>Mathematics of Operations Research</i> , 1989, 14, 91-96.	1.3	12
71	A Concentration Inequality for the $k$ -Median Problem. <i>Mathematics of Operations Research</i> , 1989, 14, 189-202.	1.3	13
72	Donsker classes of sets. <i>Probability Theory and Related Fields</i> , 1988, 78, 169-191.	1.8	19

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73	Chevet's theorem for stable processes II. Journal of Theoretical Probability, 1988, 1, 65-92.	0.8	3
74	The Structure of Sign-Invariant GB-Sets and of Certain Gaussian Measures. Annals of Probability, 1988, 16, 172.	1.8	3
75	Necessary Conditions for Sample Boundedness of $p$ -Stable Processes. Annals of Probability, 1988, 16, 1584.	1.8	9
76	Exact bounds for the stochastic upward matching problem. Transactions of the American Mathematical Society, 1988, 307, 109-125.	0.9	19
77	Martingale Inequalities and NP-Complete Problems. Mathematics of Operations Research, 1987, 12, 177-181.	1.3	81
78	Donsker Classes and Random Geometry. Annals of Probability, 1987, 15, 1327.	1.8	16
79	Banach sublattices of weak $L_1$ . Israel Journal of Mathematics, 1987, 59, 257-271.	0.8	7
80	Regularity of gaussian processes. Acta Mathematica, 1987, 159, 99-149.	3.9	185
81	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
82	Martingale inequalities and the Jackknife estimate of variance. Statistics and Probability Letters, 1986, 4, 5-6.	0.7	13
83	Uniform convexity and the distribution of the norm for a Gaussian measure. Probability Theory and Related Fields, 1986, 71, 59-67.	1.8	21
84	Renormages de Quelques $(K)$ . Israel Journal of Mathematics, 1986, 54, 327-334.	0.8	41
85	Derivation, $L^\infty$ -Bounded Martingales and Covering Conditions. Transactions of the American Mathematical Society, 1986, 293, 257.	0.9	2
86	Invariant means on an ideal. Transactions of the American Mathematical Society, 1985, 288, 257-272.	0.9	1
87	A Choquet theorem for general subspaces of vector-valued functions. Mathematical Proceedings of the Cambridge Philosophical Society, 1985, 98, 323-326.	0.4	2
88	Espaces de Baire et espaces de Namioka. Mathematische Annalen, 1985, 270, 159-164.	1.4	39
89	Choquet simplexes whose set of extreme points is $K$ -analytic. Annales De L'Institut Fourier, 1985, 35, 195-206.	0.6	7
90	A new countably determined Banach space. Israel Journal of Mathematics, 1984, 47, 75-80.	0.8	28

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91	Sur l'intégrabilité des vecteurs gaussiens. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1984, 68, 1-8.	0.8	25
92	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
93	Points extrêmes dans le dual de $L^1(\mu, E)$ . Proceedings of the American Mathematical Society, 1984, 91, 265-265.	0.8	0
94	Propriétés de Nikodym et propriétés de Grothendieck. Studia Mathematica, 1984, 78, 165-171.	0.7	10
95	On spreading models in $L^1(E)$ . Annales Scientifiques De L'Ecole Normale Supérieure, 1984, 17, 433-438.	0.8	0
96	La structure des espaces de Banach réticulés ayant la propriété de Radon-Nikodym. Israel Journal of Mathematics, 1983, 44, 213-220.	0.8	7
97	La propriété de Dunford-Pettis dans $C(K, E)$ et $L^1(E)$ . Israel Journal of Mathematics, 1983, 44, 317-321.	0.8	29
98	Mesures Gaussiennes sur un espace localement convexe. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1983, 64, 181-209.	0.8	5
99	Three convex sets. Proceedings of the American Mathematical Society, 1983, 89, 601-607.	0.8	2
100	Un espace de Banach réticulé qui a presque la propriété de Radon-Nikodym. Studia Mathematica, 1983, 76, 255-266.	0.7	2
101	Espaces de Banach représentables. Israel Journal of Mathematics, 1982, 41, 321-330.	0.8	22
102	Filtres: mesurabilité, rapidité, propriété de Baire forte. Studia Mathematica, 1982, 74, 283-291.	0.7	11
103	La pathologie des relèvements invariants. Proceedings of the American Mathematical Society, 1982, 84, 379-382.	0.8	2
104	Non existence de relèvement pour certaines mesures finiment additives et rétractés de $\mathbb{R}^2$ . Mathematische Annalen, 1981, 256, 63-66.	1.4	6
105	On Berry-Esseen type bounds for $m$ -dependent random variables valued in certain banach spaces. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 58, 433-451.	0.8	7
106	La régularité des mesures Gaussiennes. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1981, 57, 213-221.	0.8	8
107	Dual banach lattices and Banach lattices with the Radon-Nikodym property. Israel Journal of Mathematics, 1981, 38, 46-50.	0.8	10
108	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

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109	Les mesures vectorielles à valeurs dans $\mathbb{L}^0$ sont bornées. Annales Scientifiques De L'Ecole Normale Supérieure, 1981, 14, 445-452.	0.8	16
110	Ergodic measures, almost periodic points and discrete orbits. Illinois Journal of Mathematics, 1981, 25, .	0.1	0
111	A simple example of pathological submeasure. Mathematische Annalen, 1980, 252, 97-102.	1.4	17
112	Certaines formes linéaires pathologiques sur un espace de Banach dual. Israel Journal of Mathematics, 1980, 35, 171-176.	0.8	5
113	Separabilité vague dans l'espace des mesures sur un compact. Israel Journal of Mathematics, 1980, 37, 171-180.	0.8	16
114	Un Nouveau $\aleph_1$ (K) Qui Possède la Propriété de Grothendieck. Israel Journal of Mathematics, 1980, 37, 181-191.	0.8	37
115	Liftings of functions with values in a completely regular space. Proceedings of the American Mathematical Society, 1980, 78, 345-345.	0.8	4
116	Compacité extrême. Proceedings of the American Mathematical Society, 1980, 80, 68-68.	0.8	18
117	Compacts de fonctions mesurables et filtres non mesurables. Studia Mathematica, 1980, 67, 13-43.	0.7	100
118	A decomposition theorem for additive set-functions, with applications to Pettis integrals and ergodic means. Mathematische Zeitschrift, 1979, 168, 117-142.	0.9	59
119	Sur la $\aleph_1$ -Analyticité de Certains Espaces d'Opérateurs. Israel Journal of Mathematics, 1979, 32, 124-130.	0.8	7
120	Barycentres de sous-mesures pathologiques. Mathematische Annalen, 1979, 242, 97-102.	1.4	0
121	Espaces de Banach Faiblement $\aleph_1$ -Analytiques. Annals of Mathematics, 1979, 110, 407.	4.2	163
122	On $\aleph_1$ -closed sets. Mathematika, 1979, 26, 30-32.	0.5	10
123	Deux généralisations d'un théorème de I. Namioka. Pacific Journal of Mathematics, 1979, 81, 239-251.	0.5	20
124	Title is missing!. Indiana University Mathematics Journal, 1978, 27, 1001.	0.9	17
125	Capacités invariantes extrêmes. Annales De L'Institut Fourier, 1978, 28, 79-146.	0.6	10
126	Sommes vectorielles d'ensembles de mesure nulle. Annales De L'Institut Fourier, 1976, 26, 137-172.	0.6	0



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127	What is the satisfiability threshold of random balanced Boolean expressions?. Random Structures and Algorithms, 0, , .	1.1	0