Michel Benaim

List of Publications by Year
in descending order

50 papers	2,208 citations	236925 25 h-index	223800 46 g-index
52 all docs	52 docs citations	52 times ranked	858 citing authors

#	Article	IF	Citations
1	Stochastic persistence in degenerate stochastic Lotka-Volterra food chains. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 6841.	0.9	4
2	Analysis of an Adaptive Biasing Force method based on self-interacting dynamics. Electronic Journal of Probability, 2020, 25, .	1.0	2
3	Random switching between vector fields having a common zero. Annals of Applied Probability, 2019, 29, .	1.3	19
4	Persistence and extinction for stochastic ecological models with internal and external variables. Journal of Mathematical Biology, 2019, 79, 393-431.	1.9	46
5	Stochastic approximation of quasi-stationary distributions on compact spaces and applications. Annals of Applied Probability, 2018, 28, .	1.3	22
6	Self-repelling diffusions on a Riemannian manifold. Probability Theory and Related Fields, 2017, 169, 63-104.	1.8	6
7	Lotka–Volterra with randomly fluctuating environments or "how switching between beneficial environments can make survival harder" Annals of Applied Probability, 2016, 26, .	1.3	43
8	Convergence of adaptive biasing potential methods for diffusions. Comptes Rendus Mathematique, 2016, 354, 842-846.	0.3	2
9	Qualitative properties of certain piecewise deterministic Markov processes. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2015, 51, .	1.1	71
10	A generalized Pólya's urn with graph based interactions. Random Structures and Algorithms, 2015, 46, 614-634.	1.1	28
11	Self-repelling diffusions via an infinite dimensional approach. Stochastics and Partial Differential Equations: Analysis and Computations, 2015, 3, 506-530.	0.9	15
12	On Gradient Like Properties of Population Games, Learning Models and Self Reinforced Processes. CIM Series in Mathematical Sciences, 2015, , 117-152.	0.4	3
13	Smale strategies for network prisoner's dilemma games. Journal of Dynamics and Games, 2015, 2, 141-155.	1.0	5
14	Consistency of Vanishingly Smooth Fictitious Play. Mathematics of Operations Research, 2013, 38, 437-450.	1.3	9
15	Stochastic approximation, cooperative dynamics and supermodular games. Annals of Applied Probability, 2012, 22, .	1.3	12
16	Quantitative ergodicity for some switched dynamical systems. Electronic Communications in Probability, 2012, 17, .	0.4	38
17	Perturbations of Set-Valued Dynamical Systems, with Applications to Game Theory. Dynamic Games and Applications, 2012, 2, 195-205.	1.9	20
18	Dynamics of vertex-reinforced random walks. Annals of Probability, 2011, 39, .	1.8	9

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19	Persistence in fluctuating environments. Journal of Mathematical Biology, 2011, 62, 655-683.	1.9	137
20	A Class of Self-Interacting Processes with Applications to Games and Reinforced Random Walks. SIAM Journal on Control and Optimization, 2010, 48, 4707-4730.	2.1	4
21	Persistence of structured populations in random environments. Theoretical Population Biology, 2009, 76, 19-34.	1.1	60
22	Learning in games with unstable equilibria. Journal of Economic Theory, 2009, 144, 1694-1709.	1.1	45
23	A class of mean field interaction models for computer and communication systems. Performance Evaluation, 2008, 65, 823-838.	1.2	240
24	A class of mean field interaction models for computer and communication systems. , 2008, , .		11
25	Robust permanence and impermanence for stochastic replicator dynamics. Journal of Biological Dynamics, 2008, 2, 180-195.	1.7	32
26	Exponential concentration for first passage percolation through modified Poincaré inequalities. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2008, 44, .	1.1	41
27	Stochastic Approximations and Differential Inclusions, Part II: Applications. Mathematics of Operations Research, 2006, 31, 673-695.	1.3	77
28	Self-interacting diffusions. III. Symmetric interactions. Annals of Probability, 2005, 33, 1716.	1.8	18
29	Stochastic Approximations and Differential Inclusions. SIAM Journal on Control and Optimization, 2005, 44, 328-348.	2.1	180
30	Generalized URN models of evolutionary processes. Annals of Applied Probability, 2004, 14, .	1.3	37
31	A two armed bandit type problem. International Journal of Game Theory, 2003, 32, 3-16.	0.5	5
32	Deterministic Approximation of Stochastic Evolution in Games. Econometrica, 2003, 71, 873-903.	4.2	215
33	Self-interacting diffusions. Probability Theory and Related Fields, 2002, 122, 1-41.	1.8	50
34	On self attracting/repelling diffusions. Comptes Rendus Mathematique, 2002, 335, 541-544.	0.3	3
35	Metric properties of the group of area preserving diffeomorphisms. Transactions of the American Mathematical Society, 2001, 353, 4661-4672.	0.9	9
36	Convergence and oscillation in standardization games. European Journal of Economic and Social Systems, 2001, 15, 39-55.	0.2	2

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37	Standardization in Decentralized Economies. American Economic Review, 2000, 90, 550-570.	8.5	37
38	Ergodic Properties of Weak Asymptotic Pseudotrajectories for Semiflows. Journal of Dynamics and Differential Equations, 2000, 12, 579-598.	1.9	12
39	Convergence with probability one of stochastic approximation algorithms whose average is cooperative. Nonlinearity, 2000, 13, 601-616.	1.4	8
40	Stochastic approximation algorithms with constant step size whose average is cooperative. Annals of Applied Probability, 1999, 9, 216.	1.3	28
41	Recursive algorithms, urn processes and chaining number of chain recurrent sets. Ergodic Theory and Dynamical Systems, 1998, 18, 53-87.	0.6	50
42	Convergence of the one-dimensional Kohonen algorithm. Advances in Applied Probability, 1998, 30, 850-869.	0.7	21
43	Vertex-reinforced random walks and a conjecture of Pemantle. Annals of Probability, 1997, 25, 361.	1.8	36
44	On Invariant Hypersurfaces of Strongly Monotone Maps. Journal of Differential Equations, 1997, 137, 302-319.	2.2	13
45	Asymptotic pseudotrajectories and chain recurrent flows, with applications. Journal of Dynamics and Differential Equations, 1996, 8, 141-176.	1.9	76
46	A Dynamical System Approach to Stochastic Approximations. SIAM Journal on Control and Optimization, 1996, 34, 437-472.	2.1	147
47	Dynamics of Morse-Smale urn processes. Ergodic Theory and Dynamical Systems, 1995, 15, 1005-1030.	0.6	28
48	Convergence Theorems for Hybrid Learning Rules. Neural Computation, 1995, 7, 19-24.	2.2	3
49	Chain recurrence in surface flows. Discrete and Continuous Dynamical Systems, 1995, 1, 1-16.	0.9	10
50	On Functional Approximation with Normalized Gaussian Units. Neural Computation, 1994, 6, 319-333.	2.2	42