Arnaud Guillin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12112122/publications.pdf

Version: 2024-02-01

36 papers	1,774 citations	361413 20 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	608 citing authors

#	Article	IF	Citations
1	On the rate of convergence in Wasserstein distance of the empirical measure. Probability Theory and Related Fields, 2015, 162, 707-738.	1.8	429
2	Rate of convergence for ergodic continuous Markov processes: Lyapunov versus PoincarÃ©. Journal of Functional Analysis, 2008, 254, 727-759.	1.4	153
3	Quantitative Concentration Inequalities for Empirical Measures on Non-compact Spaces. Probability Theory and Related Fields, 2006, 137, 541-593.	1.8	144
4	A simple proof of the PoincarÃ© inequality for a large class of probability measures. Electronic Communications in Probability, 2008, 13, .	0.4	116
5	Subgeometric rates of convergence of f-ergodic strong Markov processes. Stochastic Processes and Their Applications, 2009, 119, 897-923.	0.9	101
6	Quantitative Harris-type theorems for diffusions and McKeanâ€“Vlasov processes. Transactions of the American Mathematical Society, 2018, 371, 7135-7173.	0.9	66
7	Trend to equilibrium and particle approximation for a weakly selfconsistent Vlasov-Fokker-Planck equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2010, 44, 867-884.	1.9	65
8	Couplings and quantitative contraction rates for Langevin dynamics. Annals of Probability, 2019, 47, .	1.8	63
9	Uniform Convergence to Equilibrium for Granular Media. Archive for Rational Mechanics and Analysis, 2013, 208, 429-445.	2.4	56
10	Transportation-information inequalities for Markov processes. Probability Theory and Related Fields, 2009, 144, 669-695.	1.8	55
11	Degenerate Fokkerâ€“Planck equations: Bismut formula, gradient estimate and Harnack inequality. Journal of Differential Equations, 2012, 253, 20-40.	2.2	55
12	Convergence to equilibrium in Wasserstein distance for Fokkerâ€“Planck equations. Journal of Functional Analysis, 2012, 263, 2430-2457.	1.4	50
13	Modified logarithmic Sobolev inequalities and transportation inequalities. Probability Theory and Related Fields, 2005, 133, 409-436.	1.8	45
14	Lyapunov conditions for Super PoincarÃ© inequalities. Journal of Functional Analysis, 2009, 256, 1821-1841.	1.4	41
15	deviation bounds for additive functionals of markov processes. ESAIM - Probability and Statistics, 2008, 12, 12-29.	0.5	40
16	A note on Talagrandâ€™s transportation inequality and logarithmic Sobolev inequality. Probability Theory and Related Fields, 2010, 148, 285-304.	1.8	36
17	On quadratic transportation cost inequalities. Journal Des Mathematiques Pures Et Appliquees, 2006, 86, 342-361.	1.6	34
18	An elementary approach to uniform in time propagation of chaos. Proceedings of the American Mathematical Society, 2020, 148, 5387-5398.	0.8	28

#	Article	IF	Citations
19	PoincarÃ© inequalities and hitting times. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2013, 49, .	1.1	27
20	Moderate deviations of inhomogeneous functionals of Markov processes and application to averaging. Stochastic Processes and Their Applications, 2001, 92, 287-313.	0.9	23
21	Total variation estimates for the TCP process. Electronic Journal of Probability, 2013, 18, .	1.0	19
22	Hitting times, functional inequalities, Lyapunov conditions and uniform ergodicity. Journal of Functional Analysis, 2017, 272, 2361-2391.	1.4	17
23	Trends to equilibrium in total variation distance. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2009, 45, .	1.1	14
24	Entropic multipliers method for Langevin diffusion and weighted log Sobolev inequalities. Journal of Functional Analysis, 2019, 277, 108288.	1.4	14
25	The kinetic Fokker-Planck equation with mean field interaction. Journal Des Mathematiques Pures Et Appliquees, 2021, 150, 1-23.	1.6	13
26	Modified logarithmic Sobolev inequalities in null curvature. Revista Matematica Iberoamericana, 2007, 23, 235-258.	0.9	12
27	Dimensional contraction via Markov transportation distance. Journal of the London Mathematical Society, 2014, 90, 309-332.	1.0	12
28	Functional inequalities via Lyapunov conditions. , 0, , 274-287.		9
29	Particles systems and numerical schemes for mean reflected stochastic differential equations. Annals of Applied Probability, 2020, 30, .	1.3	8
30	Uniform Long-Time and Propagation of Chaos Estimates for Mean Field Kinetic Particles in Non-convex Landscapes. Journal of Statistical Physics, 2021, 185, 1.	1.2	8
31	Uniform PoincarÃ© and logarithmic Sobolev inequalities for mean field particle systems. Annals of Applied Probability, 2022, 32, .	1.3	8
32	On the PoincarÃ© Constant of Log-Concave Measures. Lecture Notes in Mathematics, 2020, , 171-217.	0.2	6
33	Transportation and concentration inequalities for bifurcating Markov chains. Bernoulli, 2017, 23, .	1.3	3
34	On the Simpson index for the Wrightâ€“Fisher process with random selection and immigration. International Journal of Biomathematics, 2020, 13, 2050046.	2.9	3
35	Measure concentration through non-Lipschitz observables and functional inequalities. Electronic Journal of Probability, 2013, 18, .	1.0	1
36	Ornstein-Uhlenbeck Pinball and the PoincarÃ© Inequality in a Punctured Domain. Lecture Notes in Mathematics, 2018, , 1-55.	0.2	0