Mark F Demers

List of Publications by Year
in descending order

27 papers	560 citations	759233 12 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	149 citing authors

#	ARTICLE	IF	CITATIONS
1	Escape rates and conditionally invariant measures. Nonlinearity, 2006, 19, 377-397.	1.4	116
2	Stability of statistical properties in two-dimensional piecewise hyperbolic maps. Transactions of the American Mathematical Society, 2008, 360, 4777-4814.	0.9	67
3	Exponential decay of correlations for finite horizon Sinai billiard flows. Inventiones Mathematicae, 2018, 211, 39-177.	2.5	45
4	Escape Rates and Physically Relevant Measures for Billiards with Small Holes. Communications in Mathematical Physics, 2010, 294, 353-388.	2.2	36
5	Spectral analysis of the transfer operator for the Lorentz gas. Journal of Modern Dynamics, 2011, 5, 665-709.	0.5	36
6	A Functional Analytic Approach to Perturbations of the Lorentz Gas. Communications in Mathematical Physics, 2013, 324, 767-830.	2.2	32
7	Existence and convergence properties of physical measures for certain dynamical systems with holes. Ergodic Theory and Dynamical Systems, 2010, 30, 687-728.	0.6	28
8	Markov extensions for dynamical systems with holes: An application to expanding maps of the interval. Israel Journal of Mathematics, 2005, 146, 189-221.	0.8	22
9	Markov extensions and conditionally invariant measures for certain logistic maps with small holes. Ergodic Theory and Dynamical Systems, 2005, 25, 1139-1171.	0.6	22
10	Spectral analysis of hyperbolic systems with singularities. Nonlinearity, 2014, 27, 379-433.	1.4	20
11	Behaviour of the escape rate function in hyperbolic dynamical systems. Nonlinearity, 2012, 25, 2133-2150.	1.4	18
12	Entropy, Lyapunov exponents and escape rates in open systems. Ergodic Theory and Dynamical Systems, 2012, 32, 1270-1301.	0.6	17
13	On the measure of maximal entropy for finite horizon Sinai Billiard maps. Journal of the American Mathematical Society, 2020, 33, 381-449.	3.9	14
14	Hitting and escaping statistics: mixing, targets and holes. Advances in Mathematics, 2018, 328, 1263-1298.	1.1	12
15	Local Limit Theorem for Randomly Deforming Billiards. Communications in Mathematical Physics, 2020, 375, 2281-2334.	2.2	12
16	Dispersing Billiards with Small Holes. Springer Proceedings in Mathematics and Statistics, 2014, , 137-170.	0.2	10
17	Escape rates and singular limiting distributions for intermittent maps with holes. Transactions of the American Mathematical Society, 2015, 368, 4907-4932.	0.9	8
18	Functional norms for Young towers. Ergodic Theory and Dynamical Systems, 2010, 30, 1371-1398.	0.6	7

#	Article	IF	Citations
19	Escape rates and physical measures for the infinite horizon Lorentz gas with holes. Dynamical Systems, 2013, 28, 393-422.	0.4	6
20	Equilibrium states, pressure and escape for multimodal maps with holes. Israel Journal of Mathematics, 2017, 221, 367-424.	0.8	6
21	Slow and Fast Escape for Open Intermittent Maps. Communications in Mathematical Physics, 2017, 351, 775-835.	2.2	6
22	Deterministic Models of the Simplest Chemical Reactions. Journal of Statistical Physics, 2005, 120, 239-252.	1.2	5
23	A gentle introduction to anisotropic banach spaces. Chaos, Solitons and Fractals, 2018, 116, 29-42.	5.1	4
24	Limiting distributions for countable state topological Markov chains with holes. Discrete and Continuous Dynamical Systems, 2017, 37, 105-130.	0.9	4
25	Fluctuation of the Entropy Production for the Lorentz Gas Under Small External Forces. Communications in Mathematical Physics, 2018, 363, 699-740.	2.2	3
26	Martingale approximations and anisotropic Banach spaces with an application to the time-one map of a Lorentz gas. Nonlinearity, 2020, 33, 4095-4113.	1.4	3
27	Asymptotic escape rates and limiting distributions for multimodal maps. Ergodic Theory and Dynamical Systems, 2021, 41, 1656-1705.	0.6	1