Krzysztof Burdzy

List of Publications by Year
in descending order

43 papers	615 citations	759233 12 h-index	610901 24 g-index
43 all docs	43 docs citations	43 times ranked	327 citing authors

#	Article	IF	Citations
1	An Improved Upper Bound on the Number of Billiard Ball Collisions. Communications in Mathematical Physics, 2022, 391, 107-117.	2.2	0
2	Archimedes' Principle for Ideal Gas. Communications in Mathematical Physics, 2022, 392, 185-217.	2.2	2
3	Fermi acceleration in rotating drums. Journal of Mathematical Physics, 2022, 63, .	1.1	3
4	Improved Bounds for Hermite–Hadamard Inequalities in Higher Dimensions. Journal of Geometric Analysis, 2021, 31, 801-816.	1.0	0
5	Influence of molecular rebinding on the reaction rate of complex formation. Physical Chemistry Chemical Physics, 2021, 23, 19343-19351.	2.8	1
6	Rates of convergence to equilibrium for potlatch and smoothing processes. Annals of Probability, 2021, 49, .	1.8	3
7	On the number of hard ball collisions. Journal of the London Mathematical Society, 2020, 101, 373-392.	1.0	3
8	Twin peaks. Random Structures and Algorithms, 2020, 56, 432-460.	1.1	1
9	Floodings of metric graphs. Probability Theory and Related Fields, 2020, 177, 577-620.	1.8	0
10	Protecting Billiard Balls From Collisions. Arnold Mathematical Journal, 2020, 6, 57-62.	0.4	0
11	A Lower Bound for the Number of Elastic Collisions. Communications in Mathematical Physics, 2019, 372, 679-711.	2.2	6
12	Random Reflections in a High-Dimensional Tube. Journal of Theoretical Probability, 2018, 31, 466-493.	0.8	1
13	Comparison of quenched and annealed invariance principles for random conductance model. Probability Theory and Related Fields, 2016, 164, 741-770.	1.8	14
14	The Hinge Region Strengthens the Nonspecific Interaction between Lac-Repressor and DNA: A Computer Simulation Study. PLoS ONE, 2016, 11, e0152002.	2.5	6
15	Method for the analysis of contribution of sliding and hopping to a facilitated diffusion of DNA-binding protein: Application to in vivo data. Physical Review E, 2015, 92, 022721.	2.1	4
16	Comparison of quenched and annealed invariance principles for random conductance model: Part II. Interdisciplinary Mathematical Sciences, 2015, , 59-83.	0.4	5
17	Meteor process on $\mathbb{Z}^d$. Probability Theory and Related Fields, 2015, 163, 667-711.	1.8	1
18	On meteors, earthworms and WIMPs. Annals of Applied Probability, 2015, 25, .	1.3	9

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19	Rubber bands, pursuit games and shy couplings. Proceedings of the London Mathematical Society, 2014, 109, 121-160.	1.3	9
20	Forward Brownian motion. Probability Theory and Related Fields, 2014, 160, 95-126.	1.8	1
21	Invisibility via reflecting coating. Journal of the London Mathematical Society, 2013, 88, 359-374.	1.0	1
22	Fractal trace of earthworms. Physical Review E, 2013, 87, 052120.	2.1	1
23	Deterministic approximations of random reflectors. Transactions of the American Mathematical Society, 2013, 365, 6367-6383.	0.9	10
24	Non-extinction of a Fleming-Viot particle model. Probability Theory and Related Fields, 2012, 153, 293-332.	1.8	21
25	Archimedes' principle for Brownian liquid. Annals of Applied Probability, 2011, 21, .	1.3	5
26	Stationary distributions for diffusions with inert drift. Probability Theory and Related Fields, 2010, 146, 1.	1.8	17
27	On the Robin problem in fractal domains. Proceedings of the London Mathematical Society, 2008, 96, 273-311.	1.3	20
28	Shy couplings. Probability Theory and Related Fields, 2006, 137, 345-377.	1.8	9
29	Traps for reflected Brownian motion. Mathematische Zeitschrift, 2006, 252, 103-132.	0.9	17
30	The hot spots problem in planar domains with one hole. Duke Mathematical Journal, 2005, 129, 481.	1.5	44
31	Super-Brownian motion with reflecting historical paths. II. Convergence of approximations. Probability Theory and Related Fields, 2005, 133, 145-174.	1.8	1
32	Censored stable processes. Probability Theory and Related Fields, 2003, 127, 89-152.	1.8	207
33	Brownian motion reflected on Brownian motion. Probability Theory and Related Fields, 2002, 122, 471-493.	1.8	16
34	Coalescence of synchronous couplings. Probability Theory and Related Fields, 2002, 123, 553-578.	1.8	26
35	Super-Brownian motion with reflecting historical paths. Probability Theory and Related Fields, 2001, 121, 447-491.	1.8	2
36	Mechanisms for facilitated target location and the optimal number of molecules in the diffusion search process. Physical Review E, 2001, 64, 011914.	2.1	3

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37	A Fleming–Viot Particle Representation¶of the Dirichlet Laplacian. Communications in Mathematical Physics, 2000, 214, 679-703.	2.2	80
38	A critical case for Brownian slow points. Probability Theory and Related Fields, 1996, 105, 85-108.	1.8	2
39	A critical case for Brownian slow points. Probability Theory and Related Fields, 1996, 105, 85-108.	1.8	0
40	Non-intersection exponents for Brownian paths. Probability Theory and Related Fields, 1990, 84, 393-410.	1.8	32
41	A representation of local time for Lipschitz surfaces. Probability Theory and Related Fields, 1990, 84, 521-547.	1.8	1
42	On the critical exponent for random walk intersections. Journal of Statistical Physics, 1989, 56, 1-12.	1.2	20
43	Geometric properties of 2-dimensional Brownian paths. Probability Theory and Related Fields, 1989, 81, 485-505.	1.8	11