

Krzysztof Burdzy

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

615
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759233

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610901

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43
all docs

43
docs citations

43
times ranked

327
citing authors

#	ARTICLE	IF	CITATIONS
1	Censored stable processes. <i>Probability Theory and Related Fields</i> , 2003, 127, 89-152.	1.8	207
2	A Fleming-Viot Particle Representation of the Dirichlet Laplacian. <i>Communications in Mathematical Physics</i> , 2000, 214, 679-703.	2.2	80
3	The hot spots problem in planar domains with one hole. <i>Duke Mathematical Journal</i> , 2005, 129, 481.	1.5	44
4	Non-intersection exponents for Brownian paths. <i>Probability Theory and Related Fields</i> , 1990, 84, 393-410.	1.8	32
5	Coalescence of synchronous couplings. <i>Probability Theory and Related Fields</i> , 2002, 123, 553-578.	1.8	26
6	Non-extinction of a Fleming-Viot particle model. <i>Probability Theory and Related Fields</i> , 2012, 153, 293-332.	1.8	21
7	On the critical exponent for random walk intersections. <i>Journal of Statistical Physics</i> , 1989, 56, 1-12.	1.2	20
8	On the Robin problem in fractal domains. <i>Proceedings of the London Mathematical Society</i> , 2008, 96, 273-311.	1.3	20
9	Traps for reflected Brownian motion. <i>Mathematische Zeitschrift</i> , 2006, 252, 103-132.	0.9	17
10	Stationary distributions for diffusions with inert drift. <i>Probability Theory and Related Fields</i> , 2010, 146, 1.	1.8	17
11	Brownian motion reflected on Brownian motion. <i>Probability Theory and Related Fields</i> , 2002, 122, 471-493.	1.8	16
12	Comparison of quenched and annealed invariance principles for random conductance model. <i>Probability Theory and Related Fields</i> , 2016, 164, 741-770.	1.8	14
13	Geometric properties of 2-dimensional Brownian paths. <i>Probability Theory and Related Fields</i> , 1989, 81, 485-505.	1.8	11
14	Deterministic approximations of random reflectors. <i>Transactions of the American Mathematical Society</i> , 2013, 365, 6367-6383.	0.9	10
15	Shy couplings. <i>Probability Theory and Related Fields</i> , 2006, 137, 345-377.	1.8	9
16	Rubber bands, pursuit games and shy couplings. <i>Proceedings of the London Mathematical Society</i> , 2014, 109, 121-160.	1.3	9
17	On meteors, earthworms and WIMPs. <i>Annals of Applied Probability</i> , 2015, 25, .	1.3	9
18	A Lower Bound for the Number of Elastic Collisions. <i>Communications in Mathematical Physics</i> , 2019, 372, 679-711.	2.2	6

#	ARTICLE	IF	CITATIONS
19	The Hinge Region Strengthens the Nonspecific Interaction between Lac-Repressor and DNA: A Computer Simulation Study. PLoS ONE, 2016, 11, e0152002.	2.5	6
20	Archimedesâ€™ principle for Brownian liquid. Annals of Applied Probability, 2011, 21, .	1.3	5
21	Comparison of quenched and annealed invariance principles for random conductance model: Part II. Interdisciplinary Mathematical Sciences, 2015, , 59-83.	0.4	5
22	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
23	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
24	On the number of hard ball collisions. Journal of the London Mathematical Society, 2020, 101, 373-392.	1.0	3
25	Rates of convergence to equilibrium for potlatch and smoothing processes. Annals of Probability, 2021, 49, .	1.8	3
26	Fermi acceleration in rotating drums. Journal of Mathematical Physics, 2022, 63, .	1.1	3
27	A critical case for Brownian slow points. Probability Theory and Related Fields, 1996, 105, 85-108.	1.8	2
28	Super-Brownian motion with reflecting historical paths. Probability Theory and Related Fields, 2001, 121, 447-491.	1.8	2
29	Archimedesâ€™ Principle for Ideal Gas. Communications in Mathematical Physics, 2022, 392, 185-217.	2.2	2
30	A representation of local time for Lipschitz surfaces. Probability Theory and Related Fields, 1990, 84, 521-547.	1.8	1
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	Invisibility via reflecting coating. Journal of the London Mathematical Society, 2013, 88, 359-374.	1.0	1
33	Fractal trace of earthworms. Physical Review E, 2013, 87, 052120.	2.1	1
34	Forward Brownian motion. Probability Theory and Related Fields, 2014, 160, 95-126.	1.8	1
35	Meteor process on \mathbb{Z}^d . Probability Theory and Related Fields, 2015, 163, 667-711.	1.8	1
36	Random Reflections in a High-Dimensional Tube. Journal of Theoretical Probability, 2018, 31, 466-493.	0.8	1

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37	Twin peaks. Random Structures and Algorithms, 2020, 56, 432-460.	1.1	1
38	Influence of molecular rebinding on the reaction rate of complex formation. Physical Chemistry Chemical Physics, 2021, 23, 19343-19351.	2.8	1
39	Floodings of metric graphs. Probability Theory and Related Fields, 2020, 177, 577-620.	1.8	0
40	Protecting Billiard Balls From Collisions. Arnold Mathematical Journal, 2020, 6, 57-62.	0.4	0
41	Improved Bounds for Hermite-Hadamard Inequalities in Higher Dimensions. Journal of Geometric Analysis, 2021, 31, 801-816.	1.0	0
42	An Improved Upper Bound on the Number of Billiard Ball Collisions. Communications in Mathematical Physics, 2022, 391, 107-117.	2.2	0
43	A critical case for Brownian slow points. Probability Theory and Related Fields, 1996, 105, 85-108.	1.8	0