

Makoto Katori

List of Publications by Year in descending order

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76
papers

1,358
citations

361413

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377865

34
g-index

76
all docs

76
docs citations

76
times ranked

381
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Anomaly Method in Critical Phenomena. I. Journal of the Physical Society of Japan, 1987, 56, 3092-3112.	1.6	114
2	Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. Journal of Mathematical Physics, 2004, 45, 3058-3085.	1.1	96
3	Coherent Anomaly Method in Critical Phenomena. II. Applications to the Two- and Three-Dimensional Ising Models. Journal of the Physical Society of Japan, 1987, 56, 3113-3125.	1.6	72
4	Limit distributions of two-dimensional quantum walks. Physical Review A, 2008, 77, .	2.5	69
5	Coherent-Anomaly Method in Critical Phenomena. III. Mean-Field Transfer-Matrix Method in the 2D Ising Model. Journal of the Physical Society of Japan, 1987, 56, 3865-3880.	1.6	59
6	Scaling limit of vicious walks and two-matrix model. Physical Review E, 2002, 66, 011105.	2.1	57
7	Upper bounds for survival probability of the contact process. Journal of Statistical Physics, 1991, 63, 115-130.	1.2	56
8	Noncolliding Brownian Motion and Determinantal Processes. Journal of Statistical Physics, 2007, 129, 1233-1277.	1.2	53
9	New Method to Study Critical Phenomena—Mean-Field Finite-Size Scaling Theory. Journal of the Physical Society of Japan, 1986, 55, 1-4.	1.6	43
10	Non-Equilibrium Dynamics of Dyson's Model with an Infinite Number of Particles. Communications in Mathematical Physics, 2010, 293, 469-497.	2.2	38
11	Coherent-Anomaly Method in Critical Phenomena. V. Estimation of the Dynamical Critical Exponent $\hat{\nu}$ of the Two-Dimensional Kinetic Ising Model. Journal of the Physical Society of Japan, 1988, 57, 807-817.	1.6	34
12	Noncolliding Squared Bessel Processes. Journal of Statistical Physics, 2011, 142, 592-615.	1.2	34
13	Maximum distributions of bridges of noncolliding Brownian paths. Physical Review E, 2008, 78, 051102.	2.1	33
14	Wigner formula of rotation matrices and quantum walks. Physical Review A, 2007, 76, .	2.5	32
15	Proof of breaking of self-organized criticality in a nonconservative Abelian sandpile model. Physical Review E, 2000, 61, 1183-1188.	2.1	30
16	Vicious walks with a wall, noncolliding meanders, and chiral and Bogoliubov—de Gennes random matrices. Physical Review E, 2003, 68, 021112.	2.1	30
17	Applications of the CAM Based on a New Decoupling Procedure of Correlation Functions in the One-Dimensional Contact Process. Journal of the Physical Society of Japan, 1990, 59, 1581-1592.	1.6	28
18	Dynamical correlations among vicious random walkers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 29-35.	2.1	26

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19	Families of vicious walkers. <i>Journal of Physics A</i> , 2003, 36, 609-629.	1.6	26
20	Analysis of Canopy-Gap Structures of Forests by Ising-Gibbs States - Equilibrium and Scaling Property of Real Forests -. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 2553-2560.	1.6	22
21	Infinite systems of noncolliding generalized meanders and Riemannâ€Liouville differintegrals. <i>Probability Theory and Related Fields</i> , 2007, 138, 113-156.	1.8	22
22	Two Bessel Bridges Conditioned Never to Collide, DoubleÂDirichlet Series, and Jacobi Theta Function. <i>Journal of Statistical Physics</i> , 2008, 131, 1067-1083.	1.2	21
23	Quantum walks and orbital states of a Weyl particle. <i>Physical Review A</i> , 2005, 72, .	2.5	20
24	Zeros of Airy Function and Relaxation Process. <i>Journal of Statistical Physics</i> , 2009, 136, 1177-1204.	1.2	20
25	Bessel Processes, Schrammâ€Loewner Evolution, and the Dyson Model. <i>SpringerBriefs in Mathematical Physics</i> , 2016, , .	0.2	20
26	Functional central limit theorems for vicious walkers. <i>Stochastic and Stochastics Reports</i> , 2003, 75, 369-390.	0.6	18
27	Interacting particles on the line and Dunkl intertwining operator of type $A_{j }$: application to the freezing regime. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 395201.	2.1	17
28	Forest Dynamics with Canopy Gap Expansion and Stochastic Ising Model. <i>Fractals</i> , 1998, 06, 81-86.	3.7	16
29	Chiral Potts Models, Friendly Walkers and Directed Percolation Problem. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 1655-1666.	1.6	16
30	Determinantal martingales and noncolliding diffusion processes. <i>Stochastic Processes and Their Applications</i> , 2014, 124, 3724-3768.	0.9	16
31	Noncolliding Brownian motion with drift and time-dependent Stieltjes-Wigert determinantal point process. <i>Journal of Mathematical Physics</i> , 2012, 53, .	1.1	12
32	Two limiting regimes of interacting Bessel processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 235201.	2.1	12
33	Dirac equation with an ultraviolet cutoff and a quantum walk. <i>Physical Review A</i> , 2010, 81, .	2.5	11
34	Fractal Structure of Isothermal Lines and Loops on the Cosmic Microwave Background. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 074003.	1.6	11
35	â€Connell's process as a vicious Brownian motion. <i>Physical Review E</i> , 2011, 84, 061144.	2.1	10
36	Noncolliding Brownian motions and Harish-Chandra formula. <i>Electronic Communications in Probability</i> , 2003, 8, 112.	0.4	9

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37	Survival Probability of Mutually Killing Brownian Motions and the Oâ€™Connell Process. Journal of Statistical Physics, 2012, 147, 206-223.	1.2	9
38	Elliptic determinantal process of type A. Probability Theory and Related Fields, 2015, 162, 637-677.	1.8	9
39	Fermi Partition Functions of Friendly Walkers and Pair Connectedness of Directed Percolation. Journal of the Physical Society of Japan, 2001, 70, 1-4.	1.6	8
40	Determinantal Process Starting from an Orthogonal Symmetry is a Pfaffian Process. Journal of Statistical Physics, 2012, 146, 249-263.	1.2	7
41	Two-Dimensional Elliptic Determinantal Point Processes and Related Systems. Communications in Mathematical Physics, 2019, 371, 1283-1321.	2.2	7
42	Infinite Systems of Non-Colliding Brownian Particles. , 0, , .		7
43	Survival Probabilities for Discrete-Time Models in One Dimension. Journal of Statistical Physics, 2000, 99, 603-612.	1.2	6
44	Reciprocal Time Relation of Noncolliding Brownian Motion with Drift. Journal of Statistical Physics, 2012, 148, 38-52.	1.2	6
45	Complex Brownian motion representation of the Dyson model. Electronic Communications in Probability, 2013, 18, .	0.4	6
46	Phase Diagram of Collective Motion of Bacterial Cells in a Shallow Circular Pool. Journal of the Physical Society of Japan, 2015, 84, 124001.	1.6	6
47	Hydrodynamic Limit of Multiple SLE. Journal of Statistical Physics, 2018, 171, 166-188.	1.2	6
48	Ballot number representation of the percolation probability series for the directed square lattice. Journal of Physics A, 1997, 30, 2975-2994.	1.6	5
49	Dualities for the Domanyâ€™Kinzel Model. Journal of Theoretical Probability, 2004, 17, 131-144.	0.8	5
50	Conformal welding problem, flow line problem, and multiple Schrammâ€™Loewner evolution. Journal of Mathematical Physics, 2020, 61, 083301.	1.1	5
51	Local number variances and hyperuniformity of the Heisenberg family of determinantal point processes. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 165201.	2.1	5
52	Percolation transitions and wetting transitions in stochastic models. Brazilian Journal of Physics, 2000, 30, 83-96.	1.4	5
53	Extension of the Arrowsmithâ€™Essam Formula to the Domanyâ€™Kinzel Model. Journal of Statistical Physics, 2000, 101, 747-774.	1.2	4
54	Velocity correlations of a discrete-time totally asymmetric simple-exclusion process in stationary state on a circle. Physical Review E, 2011, 84, 041141.	2.1	4

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55	System of Complex Brownian Motions Associated with the \mathbb{Z}^2 -Connell Process. Journal of Statistical Physics, 2012, 149, 411-431.	1.2	4
56	Elliptic Bessel processes and elliptic Dyson models realized as temporally inhomogeneous processes. Journal of Mathematical Physics, 2016, 57, 103302.	1.1	4
57	Low-Density Series Expansion for the Domany-Kinzel Model. Journal of the Physical Society of Japan, 2001, 70, 359-366.	1.6	3
58	Moments of vicious walkers and M \ddot{u} bius graph expansions. Physical Review E, 2003, 67, 051110.	2.1	3
59	Determinantal correlations of Brownian paths in the plane with nonintersection condition on their loop-erased parts. Physical Review E, 2011, 83, 041127.	2.1	3
60	Stochastic model showing a transition to self-controlled particle-deposition state induced by optical near-fields. Applied Physics B: Lasers and Optics, 2015, 120, 247-254.	2.2	3
61	Three phases of multiple SLE driven by non-colliding Dyson's Brownian motions. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 325002.	2.1	3
62	Partial isometries, duality, and determinantal point processes. Random Matrices: Theory and Application, 2022, 11, .	1.1	3
63	Structural and Statistical Properties of Competing Directed Percolation. Journal of the Physical Society of Japan, 1994, 63, 2919-2929.	1.6	2
64	n-State Exclusive Diffusion Models for Avalanche Processes Showing Self-Organized Criticality. Journal of the Physical Society of Japan, 1997, 66, 2367-2382.	1.6	2
65	Determinantal Martingales and Correlations of Noncolliding Random Walks. Journal of Statistical Physics, 2015, 159, 21-42.	1.2	2
66	Macdonald denominators for affine root systems, orthogonal theta functions, and elliptic determinantal point processes. Journal of Mathematical Physics, 2019, 60, 013301.	1.1	2
67	Continuum percolation and stochastic epidemic models on Poisson and Ginibre point processes. Physica A: Statistical Mechanics and Its Applications, 2021, 581, 126191.	2.6	2
68	Elliptic Determinantal Processes and Elliptic Dyson Models. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	2
69	Phase Transitions in Contact Process and its Related Processes. , 1993, , 23-72.		2
70	Zeros of the i.i.d.-Gaussian Laurent Series on an Annulus: Weighted Szeg \acute{o} 's Kernels and Permanent-Determinantal Point Processes. Communications in Mathematical Physics, 2022, 392, 1099-1151.	2.2	2
71	Exclusive Diffusion Model Showing Self-Organized Criticality. Journal of the Physical Society of Japan, 1996, 65, 2536-2542.	1.6	1
72	Bessel Processes. SpringerBriefs in Mathematical Physics, 2015, , 1-39.	0.2	1

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73	Nonequilibrium Statistical Mechanical Models for Photon Breeding Processes Assisted by Dressed-Photon-Phonons. Nano-optics and Nanophotonics, 2017, , 19-55.	0.2	1
74	Dyson Model. SpringerBriefs in Mathematical Physics, 2015, , 57-137.	0.2	0
75	Excursion Processes Associated with Elliptic Combinatorics. Journal of Statistical Physics, 2018, 171, 1035-1066.	1.2	0
76	Three-Parametric Marcenkoâ€Pastur Density. Journal of Statistical Physics, 2020, 178, 1397-1416.	1.2	0