

# Makoto Katori

## List of Publications by Year in descending order

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76  
papers

1,358  
citations

411340

20  
h-index

425179

34  
g-index

76  
all docs

76  
docs citations

76  
times ranked

417  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Partial isometries, duality, and determinantal point processes. <i>Random Matrices: Theory and Application</i> , 2022, 11, .   | 0.5 | 3         |
| 2  | Zeros of the i.i.d. Gaussian Laurent Series on an Annulus: Weighted Szegő Kernels and Permanent-Determinantal Point Processes. <i>Communications in Mathematical Physics</i> , 2022, 392, 1099-1151. | 1.0 | 2         |
| 3  | Local number variances and hyperuniformity of the Heisenberg family of determinantal point processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 165201.                  | 0.7 | 5         |
| 4  | Three phases of multiple SLE driven by non-colliding Dyson's Brownian motions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 325002.   | 0.7 | 3         |
| 5  | Continuum percolation and stochastic epidemic models on Poisson and Ginibre point processes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 581, 126191.                       | 1.2 | 2         |
| 6  | Conformal welding problem, flow line problem, and multiple Schramm's Loewner evolution. <i>Journal of Mathematical Physics</i> , 2020, 61, 083301.   | 0.5 | 5         |
| 7  | Three-Parametric Marcenko's Pastur Density. <i>Journal of Statistical Physics</i> , 2020, 178, 1397-1416.  | 0.5 | 0         |
| 8  | Two-Dimensional Elliptic Determinantal Point Processes and Related Systems. <i>Communications in Mathematical Physics</i> , 2019, 371, 1283-1321.  | 1.0 | 7         |
| 9  | Macdonald denominators for affine root systems, orthogonal theta functions, and elliptic determinantal point processes. <i>Journal of Mathematical Physics</i> , 2019, 60, 013301.                   | 0.5 | 2         |
| 10 | Excursion Processes Associated with Elliptic Combinatorics. <i>Journal of Statistical Physics</i> , 2018, 171, 1035-1066.  | 0.5 | 0         |
| 11 | Hydrodynamic Limit of Multiple SLE. <i>Journal of Statistical Physics</i> , 2018, 171, 166-188.  | 0.5 | 6         |
| 12 | Nonequilibrium Statistical Mechanical Models for Photon Breeding Processes Assisted by Dressed-Photon-Phonons. <i>Nano-optics and Nanophotonics</i> , 2017, , 19-55.                                 | 0.2 | 1         |
| 13 | Elliptic Bessel processes and elliptic Dyson models realized as temporally inhomogeneous processes. <i>Journal of Mathematical Physics</i> , 2016, 57, 103302.                                       | 0.5 | 4         |
| 14 | Bessel Processes, Schramm's Loewner Evolution, and the Dyson Model. <i>SpringerBriefs in Mathematical Physics</i> , 2016, , .  | 0.1 | 20        |
| 15 | Phase Diagram of Collective Motion of Bacterial Cells in a Shallow Circular Pool. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 124001.  | 0.7 | 6         |
| 16 | Dyson Model. <i>SpringerBriefs in Mathematical Physics</i> , 2015, , 57-137.   | 0.1 | 0         |
| 17 | Elliptic determinantal process of type A. <i>Probability Theory and Related Fields</i> , 2015, 162, 637-677.   | 0.9 | 9         |
| 18 | Determinantal Martingales and Correlations of Noncolliding Random Walks. <i>Journal of Statistical Physics</i> , 2015, 159, 21-42.   | 0.5 | 2         |

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|----|---|-----|-----------|
| 19 | 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.              | 1.1 | 3         |
| 20 | Bessel Processes. SpringerBriefs in Mathematical Physics, 2015, , 1-39.   | 0.1 | 1         |
| 21 | Two limiting regimes of interacting Bessel processes. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 235201.   | 0.7 | 12        |
| 22 | Determinantal martingales and noncolliding diffusion processes. Stochastic Processes and Their Applications, 2014, 124, 3724-3768.  | 0.4 | 16        |
| 23 | Complex Brownian motion representation of the Dyson model. Electronic Communications in Probability, 2013, 18, .  | 0.1 | 6         |
| 24 | Noncolliding Brownian motion with drift and time-dependent Stieltjes-Wigert determinantal point process. Journal of Mathematical Physics, 2012, 53, .                                     | 0.5 | 12        |
| 25 | System of Complex Brownian Motions Associated with the $\mathbb{O}^{\text{TM}}$ Connell Process. Journal of Statistical Physics, 2012, 149, 411-431.                                      | 0.5 | 4         |
| 26 | Interacting particles on the line and Dunkl intertwining operator of type $A$ : application to the freezing regime. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 395201. | 0.7 | 17        |
| 27 | Survival Probability of Mutually Killing Brownian Motions and the $\mathbb{O}^{\text{TM}}$ Connell Process. Journal of Statistical Physics, 2012, 147, 206-223.                           | 0.5 | 9         |
| 28 | Reciprocal Time Relation of Noncolliding Brownian Motion with Drift. Journal of Statistical Physics, 2012, 148, 38-52.  | 0.5 | 6         |
| 29 | Determinantal Process Starting from an Orthogonal Symmetry is a Pfaffian Process. Journal of Statistical Physics, 2012, 146, 249-263.   | 0.5 | 7         |
| 30 | Noncolliding Squared Bessel Processes. Journal of Statistical Physics, 2011, 142, 592-615.  | 0.5 | 34        |
| 31 | Determinantal correlations of Brownian paths in the plane with nonintersection condition on their loop-erased parts. Physical Review E, 2011, 83, 041127.                                 | 0.8 | 3         |
| 32 | Velocity correlations of a discrete-time totally asymmetric simple-exclusion process in stationary state on a circle. Physical Review E, 2011, 84, 041141.                                | 0.8 | 4         |
| 33 | $\mathbb{O}^{\text{TM}}$ Connell's process as a vicious Brownian motion. Physical Review E, 2011, 84, 061144.   | 0.8 | 10        |
| 34 | Fractal Structure of Isothermal Lines and Loops on the Cosmic Microwave Background. Journal of the Physical Society of Japan, 2011, 80, 074003.   | 0.7 | 11        |
| 35 | Non-Equilibrium Dynamics of Dyson's Model with an Infinite Number of Particles. Communications in Mathematical Physics, 2010, 293, 469-497.   | 1.0 | 38        |
| 36 | Dirac equation with an ultraviolet cutoff and a quantum walk. Physical Review A, 2010, 81, .  | 1.0 | 11        |

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|----|--|-----|-----------|
| 37 | Zeros of Airy Function and Relaxation Process. <i>Journal of Statistical Physics</i> , 2009, 136, 1177-1204.   | 0.5 | 20        |
| 38 | Two Bessel Bridges Conditioned Never to Collide, Double-Dirichlet Series, and Jacobi Theta Function. <i>Journal of Statistical Physics</i> , 2008, 131, 1067-1083. | 0.5 | 21        |
| 39 | Maximum distributions of bridges of noncolliding Brownian paths. <i>Physical Review E</i> , 2008, 78, 051102.  | 0.8 | 33        |
| 40 | Limit distributions of two-dimensional quantum walks. <i>Physical Review A</i> , 2008, 77, .   | 1.0 | 69        |
| 41 | Wigner formula of rotation matrices and quantum walks. <i>Physical Review A</i> , 2007, 76, .  | 1.0 | 32        |
| 42 | Noncolliding Brownian Motion and Determinantal Processes. <i>Journal of Statistical Physics</i> , 2007, 129, 1233-1277.  | 0.5 | 53        |
| 43 | Infinite systems of noncolliding generalized meanders and Riemann-Liouville differintegrals. <i>Probability Theory and Related Fields</i> , 2007, 138, 113-156.    | 0.9 | 22        |
| 44 | Quantum walks and orbital states of a Weyl particle. <i>Physical Review A</i> , 2005, 72, .  | 1.0 | 20        |
| 45 | Symmetry of matrix-valued stochastic processes and noncolliding diffusion particle systems. <i>Journal of Mathematical Physics</i> , 2004, 45, 3058-3085.          | 0.5 | 96        |
| 46 | Dualities for the Domany-Kinzel Model. <i>Journal of Theoretical Probability</i> , 2004, 17, 131-144.  | 0.4 | 5         |
| 47 | Dynamical correlations among vicious random walkers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 307, 29-35.                | 0.9 | 26        |
| 48 | Vicious walks with a wall, noncolliding meanders, and chiral and Bogoliubov-de Gennes random matrices. <i>Physical Review E</i> , 2003, 68, 021112.                | 0.8 | 30        |
| 49 | Functional central limit theorems for vicious walkers. <i>Stochastic and Stochastics Reports</i> , 2003, 75, 369-390.  | 0.6 | 18        |
| 50 | Moments of vicious walkers and MÃbius graph expansions. <i>Physical Review E</i> , 2003, 67, 051110.   | 0.8 | 3         |
| 51 | Families of vicious walkers. <i>Journal of Physics A</i> , 2003, 36, 609-629.  | 1.6 | 26        |
| 52 | Noncolliding Brownian motions and Harish-Chandra formula. <i>Electronic Communications in Probability</i> , 2003, 8, 112.  | 0.1 | 9         |
| 53 | Scaling limit of vicious walks and two-matrix model. <i>Physical Review E</i> , 2002, 66, 011105.  | 0.8 | 57        |
| 54 | Fermi Partition Functions of Friendly Walkers and Pair Connectedness of Directed Percolation. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1-4.     | 0.7 | 8         |

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|----|--|-----|-----------|
| 55 | Low-Density Series Expansion for the Domany-Kinzel Model. Journal of the Physical Society of Japan, 2001, 70, 359-366.   | 0.7 | 3         |
| 56 | Survival Probabilities for Discrete-Time Models in One Dimension. Journal of Statistical Physics, 2000, 99, 603-612.   | 0.5 | 6         |
| 57 | Extension of the Arrowsmith-Essam Formula to the Domany-Kinzel Model. Journal of Statistical Physics, 2000, 101, 747-774.  | 0.5 | 4         |
| 58 | Proof of breaking of self-organized criticality in a nonconservative Abelian sandpile model. Physical Review E, 2000, 61, 1183-1188.   | 0.8 | 30        |
| 59 | Percolation transitions and wetting transitions in stochastic models. Brazilian Journal of Physics, 2000, 30, 83-96.   | 0.7 | 5         |
| 60 | Analysis of Canopy-Gap Structures of Forests by Ising-Gibbs States - Equilibrium and Scaling Property of Real Forests -. Journal of the Physical Society of Japan, 1999, 68, 2553-2560.                        | 0.7 | 22        |
| 61 | Forest Dynamics with Canopy Gap Expansion and Stochastic Ising Model. Fractals, 1998, 06, 81-86.   | 1.8 | 16        |
| 62 | Chiral Potts Models, Friendly Walkers and Directed Percolation Problem. Journal of the Physical Society of Japan, 1998, 67, 1655-1666.   | 0.7 | 16        |
| 63 | Ballot number representation of the percolation probability series for the directed square lattice. Journal of Physics A, 1997, 30, 2975-2994.   | 1.6 | 5         |
| 64 | n-State Exclusive Diffusion Models for Avalanche Processes Showing Self-Organized Criticality. Journal of the Physical Society of Japan, 1997, 66, 2367-2382.  | 0.7 | 2         |
| 65 | Exclusive Diffusion Model Showing Self-Organized Criticality. Journal of the Physical Society of Japan, 1996, 65, 2536-2542.   | 0.7 | 1         |
| 66 | Structural and Statistical Properties of Competing Directed Percolation. Journal of the Physical Society of Japan, 1994, 63, 2919-2929.  | 0.7 | 2         |
| 67 | Phase Transitions in Contact Process and its Related Processes. , 1993, , 23-72.   |     | 2         |
| 68 | Upper bounds for survival probability of the contact process. Journal of Statistical Physics, 1991, 63, 115-130.   | 0.5 | 56        |
| 69 | 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.                    | 0.7 | 28        |
| 70 | Coherent-Anomaly Method in Critical Phenomena. V. Estimation of the Dynamical Critical Exponent $\nu$ of the Two-Dimensional Kinetic Ising Model. Journal of the Physical Society of Japan, 1988, 57, 807-817. | 0.7 | 34        |
| 71 | 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.                                    | 0.7 | 59        |
| 72 | 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.                                 | 0.7 | 72        |

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|----|--|-----|-----------|
| 73 | Coherent Anomaly Method in Critical Phenomena. I.. Journal of the Physical Society of Japan, 1987, 56, 3092-3112.                          | 0.7 | 114       |
| 74 | New Method to Study Critical Phenomena—“Mean-Field Finite-Size Scaling Theory. Journal of the Physical Society of Japan, 1986, 55, 1-4.    | 0.7 | 43        |
| 75 | Infinite Systems of Non-Colliding Brownian Particles. , 0, , .   |     | 7         |
| 76 | Elliptic Determinantal Processes and Elliptic Dyson Models. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , . | 0.5 | 2         |