Philip K Pollett

List of Publications by Year
in descending order

121 papers	1,693 citations	304743 22 h-index	395702 33 g-index
128 all docs	128 docs citations	128 times ranked	638 citing authors

#	Article	IF	Citations
1	Quasi-stationary distributions for discrete-state models. European Journal of Operational Research, 2013, 230, 1-14.	5.7	82
2	Sojourn times in closed queueing networks. Advances in Applied Probability, 1983, 15, 638-656.	0.7	67
3	Reversibility, invariance and Î¼-invariance. Advances in Applied Probability, 1988, 20, 600-621.	0.7	61
4	On the relationship between Âµ-invariant measures and quasi-stationary distributions for continuous-time Markov chains. Advances in Applied Probability, 1993, 25, 82-102.	0.7	60
5	The deterministic limit of a stochastic logistic model with individual variation. Mathematical Biosciences, 2013, 241, 109-114.	1.9	52
6	BINOMIAL AUTOREGRESSIVE PROCESSES WITH DENSITYâ€DEPENDENT THINNING. Journal of Time Series Analysis, 2014, 35, 115-132.	1.2	48
7	On a model for interference between searching insect parasites. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1990, 32, 133-150.	0.2	45
8	On the equivalence of Î¼-invariant measures for the minimal process and its q-matrix. Stochastic Processes and Their Applications, 1986, 22, 203-221.	0.9	41
9	Sojourn times in closed queueing networks. Advances in Applied Probability, 1983, 15, 638-656.	0.7	38
10	Limit theorems for discrete-time metapopulation models. Probability Surveys, 2010, 7, .	1.3	38
11	On parameter estimation in population models. Theoretical Population Biology, 2006, 70, 498-510.	1.1	36
12	Limiting Conditional Distributions for Birthdeath Processes. Advances in Applied Probability, 1997, 29, 185-204.	0.7	35
13	On parameter estimation in population models II: Multi-dimensional processes and transient dynamics. Theoretical Population Biology, 2009, 75, 123-132.	1.1	34
14	Estimation for queues from queue length data. Queueing Systems, 2007, 55, 131-138.	0.9	32
15	Markovian bulk-arrival and bulk-service queues withÂstate-dependent control. Queueing Systems, 2010, 64, 267-304.	0.9	29
16	Chain Binomial Models and Binomial Autoregressive Processes. Biometrics, 2012, 68, 815-824.	1.4	28
17	Quasistationary distributions for autocatalytic reactions. Journal of Statistical Physics, 1987, 46, 249-254.	1.2	27
18	An Efficient Procedure for Computing Quasi-Stationary Distributions of Markov Chains by Sparse Transition Structure. Advances in Applied Probability, 1994, 26, 68-79.	0.7	27

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19	The quasi-stationary behavior of quasi-birth-and-death processes. Annals of Applied Probability, 1997, 7, .	1.3	27
20	Stochastic models for the spread of HIV in a mobile heterosexual population. Mathematical Biosciences, 2007, 208, 98-124.	1.9	26
21	Title is missing!. Methodology and Computing in Applied Probability, 2001, 3, 75-95.	1.2	25
22	Some distributional approximations in Markovian queueing networks. Advances in Applied Probability, 1982, 14, 654-671.	0.7	23
23	Connecting reversible Markov processes. Advances in Applied Probability, 1986, 18, 880-900.	0.7	23
24	A note on quasi-stationary distributions of birth–death processes and the SIS logistic epidemic. Journal of Applied Probability, 2003, 40, 821-825.	0.7	23
25	The determination of quasistationary distributions directly from the transition rates of an absorbing Markov chain. Mathematical and Computer Modelling, 1995, 22, 279-287.	2.0	22
26	Survival in a quasi-death process. Linear Algebra and Its Applications, 2008, 429, 776-791.	0.9	22
27	Extinction times for a general birth, death and catastrophe process. Journal of Applied Probability, 2004, 41, 1211-1218.	0.7	19
28	On the Problem of Establishing the Existence of Stationary Distributions for Continuous-Time Markov Chains. Probability in the Engineering and Informational Sciences, 1993, 7, 529-543.	0.8	18
29	Quasi-stationarity in populations that are subject to large-scale mortality or emigration. Environment International, 2001, 27, 231-236.	10.0	18
30	Connecting reversible Markov processes. Advances in Applied Probability, 1986, 18, 880-900.	0.7	17
31	The supercritical birth, death and catastrophe process: limit theorems on the set of extinction. Stochastic Processes and Their Applications, 1989, 32, 161-170.	0.9	17
32	Preserving partial balance in continuous-time Markov chains. Advances in Applied Probability, 1987, 19, 431-453.	0.7	16
33	A description of the long-term behaviour of absorbing continuous-time Markov chains using a centre manifold. Advances in Applied Probability, 1990, 22, 111-128.	0.7	15
34	METAPOPULATION PERSISTENCE IN A DYNAMIC LANDSCAPE: MORE HABITAT OR BETTER STEWARDSHIP. , 2008, 18, 590-598.		15
35	Optimal Sampling and Problematic Likelihood Functions in a Simple Population Model. Environmental Modeling and Assessment, 2009, 14, 759-767.	2.2	15
36	Indirect detection of genetic dispersal (movement and breeding events) through pedigree analysis of dugong populations in southern Queensland, Australia. Biological Conservation, 2015, 181, 91-101.	4.1	15

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37	The generalized Kolmogorov criterion. Stochastic Processes and Their Applications, 1989, 33, 29-44.	0.9	14
38	Diffusion approximations for some simple chemical reaction schemes. Advances in Applied Probability, 1992, 24, 875-893.	0.7	14
39	Path integrals for continuous-time Markov chains. Journal of Applied Probability, 2002, 39, 901-904.	0.7	14
40	The collision branching process. Journal of Applied Probability, 2004, 41, 1033-1048.	0.7	14
41	A note on quasi-stationary distributions of birthâ€"death processes and the SIS logistic epidemic. Journal of Applied Probability, 2003, 40, 821-825.	0.7	13
42	Uniqueness criteria for continuous-time Markov chains with general transition structures. Advances in Applied Probability, 2005, 37, 1056-1074.	0.7	13
43	Limits of large metapopulations with patch-dependent extinction probabilities. Advances in Applied Probability, 2010, 42, 1172-1186.	0.7	13
44	Preserving partial balance in continuous-time Markov chains. Advances in Applied Probability, 1987, 19, 431-453.	0.7	12
45	On the problem of evaluating quasistationary distributions for open reaction schemes. Journal of Statistical Physics, 1988, 53, 1207-1215.	1.2	12
46	Locally optimal designs for the simple death process. Journal of Statistical Planning and Inference, 2010, 140, 3096-3105.	0.6	12
47	Hodges-Lehmann Scale Estimator for Cauchy Distribution. Communications in Statistics - Theory and Methods, 2012, 41, 3621-3632.	1.0	12
48	On the construction problem for single-exit Markov chains. Bulletin of the Australian Mathematical Society, 1991, 43, 439-450.	0.5	11
49	Connecting internally balanced quasi-reversible Markov processes. Advances in Applied Probability, 1992, 24, 934-959.	0.7	11
50	Diffusion approximations for some simple chemical reaction schemes. Advances in Applied Probability, 1992, 24, 875-893.	0.7	11
51	Integrals for continuous-time Markov chains. Mathematical Biosciences, 2003, 182, 213-225.	1.9	11
52	Total Variation Approximation for Quasi-Stationary Distributions. Journal of Applied Probability, 2010, 47, 934-946.	0.7	11
53	Reversibility, invariance and Î¼-invariance. Advances in Applied Probability, 1988, 20, 600-621.	0.7	10
54	A description of the long-term behaviour of absorbing continuous-time Markov chains using a centre manifold. Advances in Applied Probability, 1990, 22, 111-128.	0.7	10

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55	Path integrals for continuous-time Markov chains. Journal of Applied Probability, 2002, 39, 901-904.	0.7	10
56	Uniqueness, Extinction and Explosivity of Generalised Markov Branching Processes with Pairwise Interaction. Methodology and Computing in Applied Probability, 2010, 12, 511-531.	1.2	10
57	Simple rules for ranking and optimally managing metapopulations. Ecological Modelling, 2010, 221, 2515-2520.	2.5	10
58	Total variation approximation for quasi-equilibrium distributions, II. Stochastic Processes and Their Applications, 2012, 122, 3740-3756.	0.9	10
59	Some distributional approximations in Markovian queueing networks. Advances in Applied Probability, 1982, 14, 654-671.	0.7	9
60	On the relationship between µ-invariant measures and quasi-stationary distributions for continuous-time Markov chains. Advances in Applied Probability, 1993, 25, 82-102.	0.7	9
61	Modelling the long-term behaviour of evanescent ecological systems. Ecological Modelling, 1996, 86, 135-139.	2.5	9
62	Modelling quasi-stationary behaviour in metapopulations. Mathematics and Computers in Simulation, 1999, 48, 393-405.	4.4	9
63	Analytical methods for a stochastic mainland–island metapopulation model. Ecological Modelling, 2010, 221, 2526-2530.	2.5	9
64	Total Variation Approximation for Quasi-Stationary Distributions. Journal of Applied Probability, 2010, 47, 934-946.	0.7	9
65	The limiting behaviour of a stochastic patch occupancy model. Journal of Mathematical Biology, 2013, 67, 693-716.	1.9	9
66	Optimal design of experimental epidemics. Journal of Statistical Planning and Inference, 2013, 143, 563-572.	0.6	9
67	Invariant measures for Q-processes when Q is not regular. Advances in Applied Probability, 1991, 23, 277-292.	0.7	8
68	Invariant measures for Q-processes when Q is not regular. Advances in Applied Probability, 1991, 23, 277-292.	0.7	8
69	Quasistationary distributions for continuous time Markov chains when absorption is not certain. Journal of Applied Probability, 1999, 36, 268-272.	0.7	8
70	On costs and decisions in population management. Ecological Modelling, 2007, 201, 60-66.	2.5	8
71	Ehrenfest model for condensation and evaporation processes in degrading aggregates with multiple bonds. Physical Review E, 2008, 78, 031117.	2.1	8
72	Quasistationary distributions for continuous time Markov chains when absorption is not certain. Journal of Applied Probability, 1999, 36, 268-272.	0.7	8

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73	Computable Bounds for the Decay Parameter of a Birth–Death Process. Journal of Applied Probability, 2007, 44, 476-491.	0.7	8
74	A note on the classification of Q-processes when Q is not regular. Journal of Applied Probability, 1990, 27, 278-290.	0.7	7
75	Further results on the relationship between μ-invariant measures and quasi-stationary distributions for absorbing continuous-time Markov chains. Mathematical and Computer Modelling, 2000, 31, 107-113.	2.0	7
76	Robust optimal observation of a metapopulation. Ecological Modelling, 2010, 221, 2521-2525.	2.5	7
77	The limiting behaviour of a mainland-island metapopulation. Journal of Mathematical Biology, 2012, 64, 775-801.	1.9	7
78	A model for a spatially structured metapopulation accounting for within patch dynamics. Mathematical Biosciences, 2014, 247, 69-79.	1.9	7
79	A note on the classification of Q-processes when Q is not regular. Journal of Applied Probability, 1990, 27, 278-290.	0.7	6
80	Connecting internally balanced quasi-reversible Markov processes. Advances in Applied Probability, 1992, 24, 934-959.	0.7	6
81	Approximating persistence in a general class of population processes. Theoretical Population Biology, 2005, 68, 77-90.	1.1	6
82	Extinction times for a birth–death process with two phases. Mathematical Biosciences, 2006, 202, 310-322.	1.9	6
83	A closing scheme for finding almost-invariant sets in open dynamical systems. Journal of Computational Dynamics, 2014, 1, 135-162.	1.1	6
84	A Note on Extinction Times for the General Birth, Death and Catastrophe Process. Journal of Applied Probability, 2007, 44, 566-569.	0.7	6
85	On the identification of continuous-time Markov chains with a given invariant measure. Journal of Applied Probability, 1994, 31, 897-910.	0.7	5
86	Non-explosivity of limits of conditioned birth and death processes. Journal of Applied Probability, 1997, 34, 35-45.	0.7	5
87	Limiting Conditional Distributions for Birthdeath Processes. Advances in Applied Probability, 1997, 29, 185-204.	0.7	5
88	Two-Link Approximation Schemes for Loss Networks with Linear Structure and Trunk Reservation. Telecommunication Systems, 2002, 19, 187-207.	2.5	5
89	Modelling population processes with random initial conditions. Mathematical Biosciences, 2010, 223, 142-150.	1.9	5
90	Interaction between habitat quality and an Allee-like effect in metapopulations. Ecological Modelling, 2013, 249, 84-89.	2.5	5

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91	Development and testing of a genetic markerâ€based pedigree reconstruction system â€˜PRâ€genieâ€™ incorporating sizeâ€class data. Molecular Ecology Resources, 2014, 14, 857-870.	4.8	5
92	Connecting deterministic and stochastic metapopulation models. Journal of Mathematical Biology, 2015, 71, 1481-1504.	1.9	5
93	New methods for determining quasi-stationary distributions for markov chains. Mathematical and Computer Modelling, 2000, 31, 143-150.	2.0	4
94	Extinction times for a general birth, death and catastrophe process. Journal of Applied Probability, 2004, 41, 1211-1218.	0.7	4
95	Limits of large metapopulations with patch-dependent extinction probabilities. Advances in Applied Probability, 2010, 42, 1172-1186.	0.7	4
96	Poisson approximations for telecommunications networks. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1991, 32, 348-364.	0.2	3
97	A reduced load approximation accounting for link interactions in a loss network. Journal of Applied Mathematics and Decision Sciences, 2003, 7, 229-248.	0.4	3
98	A Central Limit Theorem for a Discrete-Time SIS Model with Individual Variation. Journal of Applied Probability, 2012, 49, 521-530.	0.7	3
99	The Limiting Behaviour of Hanski's Incidence Function Metapopulation Model. Journal of Applied Probability, 2014, 51, 297-316.	0.7	3
100	A metapopulation model with Markovian landscape dynamics. Theoretical Population Biology, 2016, 112, 80-96.	1.1	3
101	Normal approximations for discrete-time occupancy processes. Stochastic Processes and Their Applications, 2020, 130, 6414-6444.	0.9	3
102	Product form approximations for highly linear loss networks with trunk reservation. Mathematical and Computer Modelling, 2003, 38, 1147-1156.	2.0	2
103	Quantitative Risk Stratification in Markov Chains with Limiting Conditional Distributions. Medical Decision Making, 2009, 29, 532-540.	2.4	2
104	A Central Limit Theorem for a Discrete-Time SIS Model with Individual Variation. Journal of Applied Probability, 2012, 49, 521-530.	0.7	2
105	The Limiting Behaviour of Hanski's Incidence Function Metapopulation Model. Journal of Applied Probability, 2014, 51, 297-316.	0.7	2
106	Optimal capacity assignment in general queueing networks. Springer Optimization and Its Applications, 2009, , 261-272.	0.9	2
107	A Remark on the Uniqueness of Weighted Markov Branching Processes. Journal of Applied Probability, 2007, 44, 279-283.	0.7	2
108	Quasistationarity in continuous-time Markov chains where absorption is not certain. Journal of Applied Probability, 2000, 37, 598-600.	0.7	1

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109	A new method for analysing the equilibrium and time-dependent behaviour of markovian models. Mathematical and Computer Modelling, 2003, 38, 1409-1418.	2.0	1
110	Existence and Uniqueness of Q-Processes with a Given Finite mu-Invariant Measure. Australian and New Zealand Journal of Statistics, 2004, 46, 113-120.	0.9	1
111	Fault diagnosis using consensus of Markov chains. , 2011, , .		1
112	Fault modelling using a mixture of conditional Gaussian Transitions. , 2011, , .		1
113	Limiting the spread of disease through altered migration patterns. Journal of Theoretical Biology, 2016, 393, 60-66.	1.7	1
114	Quasistationarity in continuous-time Markov chains where absorption is not certain. Journal of Applied Probability, 2000, 37, 598-600.	0.7	1
115	On the existence of uni-instantaneous Q-processes with a given finite Î¼-invariant measure. Journal of Applied Probability, 2005, 42, 713-725.	0.7	1
116	On the identification of continuous-time Markov chains with a given invariant measure. Journal of Applied Probability, 1994, 31, 897-910.	0.7	0
117	An Efficient Procedure for Computing Quasi-Stationary Distributions of Markov Chains by Sparse Transition Structure. Advances in Applied Probability, 1994, 26, 68-79.	0.7	0
118	Poisson approximations for telecommunications networks. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1994, 36, 132-132.	0.2	0
119	Ensemble Behaviour in Population Processes with Applications to Ecological Systems. Environmental Modeling and Assessment, 2009, 14, 545-553.	2.2	0
120	Local approximation of a metapopulationâ€™s equilibrium. Journal of Mathematical Biology, 2018, 77, 765-793.	1.9	0
121	Identifying Q-Processes with a Given Finite Âµ-Invariant Measure. , 2002, , 41-55.		0