

Philip K Pollett

List of Publications by Year in descending order

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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	Normal approximations for discrete-time occupancy processes. <i>Stochastic Processes and Their Applications</i> , 2020, 130, 6414-6444.	0.9	3
2	Local approximation of a metapopulation's equilibrium. <i>Journal of Mathematical Biology</i> , 2018, 77, 765-793.	1.9	0
3	Limiting the spread of disease through altered migration patterns. <i>Journal of Theoretical Biology</i> , 2016, 393, 60-66.	1.7	1
4	A metapopulation model with Markovian landscape dynamics. <i>Theoretical Population Biology</i> , 2016, 112, 80-96.	1.1	3
5	Connecting deterministic and stochastic metapopulation models. <i>Journal of Mathematical Biology</i> , 2015, 71, 1481-1504.	1.9	5
6	Indirect detection of genetic dispersal (movement and breeding events) through pedigree analysis of dugong populations in southern Queensland, Australia. <i>Biological Conservation</i> , 2015, 181, 91-101.	4.1	15
7	Development and testing of a genetic marker-based pedigree reconstruction system incorporating size-class data. <i>Molecular Ecology Resources</i> , 2014, 14, 857-870.	4.8	5
8	BINOMIAL AUTOREGRESSIVE PROCESSES WITH DENSITY-DEPENDENT THINNING. <i>Journal of Time Series Analysis</i> , 2014, 35, 115-132.	1.2	48
9	The Limiting Behaviour of Hanski's Incidence Function Metapopulation Model. <i>Journal of Applied Probability</i> , 2014, 51, 297-316.	0.7	3
10	A model for a spatially structured metapopulation accounting for within patch dynamics. <i>Mathematical Biosciences</i> , 2014, 247, 69-79.	1.9	7
11	A closing scheme for finding almost-invariant sets in open dynamical systems. <i>Journal of Computational Dynamics</i> , 2014, 1, 135-162.	1.1	6
12	The Limiting Behaviour of Hanski's Incidence Function Metapopulation Model. <i>Journal of Applied Probability</i> , 2014, 51, 297-316.	0.7	2
13	The limiting behaviour of a stochastic patch occupancy model. <i>Journal of Mathematical Biology</i> , 2013, 67, 693-716.	1.9	9
14	Optimal design of experimental epidemics. <i>Journal of Statistical Planning and Inference</i> , 2013, 143, 563-572.	0.6	9
15	The deterministic limit of a stochastic logistic model with individual variation. <i>Mathematical Biosciences</i> , 2013, 241, 109-114.	1.9	52
16	Quasi-stationary distributions for discrete-state models. <i>European Journal of Operational Research</i> , 2013, 230, 1-14.	5.7	82
17	Interaction between habitat quality and an Allee-like effect in metapopulations. <i>Ecological Modelling</i> , 2013, 249, 84-89.	2.5	5
18	A Central Limit Theorem for a Discrete-Time SIS Model with Individual Variation. <i>Journal of Applied Probability</i> , 2012, 49, 521-530.	0.7	2

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19	A Central Limit Theorem for a Discrete-Time SIS Model with Individual Variation. Journal of Applied Probability, 2012, 49, 521-530.	0.7	3
20	Chain Binomial Models and Binomial Autoregressive Processes. Biometrics, 2012, 68, 815-824.	1.4	28
21	Hodges-Lehmann Scale Estimator for Cauchy Distribution. Communications in Statistics - Theory and Methods, 2012, 41, 3621-3632.	1.0	12
22	Total variation approximation for quasi-equilibrium distributions, II. Stochastic Processes and Their Applications, 2012, 122, 3740-3756.	0.9	10
23	The limiting behaviour of a mainland-island metapopulation. Journal of Mathematical Biology, 2012, 64, 775-801.	1.9	7
24	Fault diagnosis using consensus of Markov chains. , 2011, , .		1
25	Fault modelling using a mixture of conditional Gaussian Transitions. , 2011, , .		1
26	Limits of large metapopulations with patch-dependent extinction probabilities. Advances in Applied Probability, 2010, 42, 1172-1186.	0.7	13
27	Total Variation Approximation for Quasi-Stationary Distributions. Journal of Applied Probability, 2010, 47, 934-946.	0.7	11
28	Limits of large metapopulations with patch-dependent extinction probabilities. Advances in Applied Probability, 2010, 42, 1172-1186.	0.7	4
29	Locally optimal designs for the simple death process. Journal of Statistical Planning and Inference, 2010, 140, 3096-3105.	0.6	12
30	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
31	Markovian bulk-arrival and bulk-service queues with state-dependent control. Queueing Systems, 2010, 64, 267-304.	0.9	29
32	Simple rules for ranking and optimally managing metapopulations. Ecological Modelling, 2010, 221, 2515-2520.	2.5	10
33	Analytical methods for a stochastic mainland-island metapopulation model. Ecological Modelling, 2010, 221, 2526-2530.	2.5	9
34	Robust optimal observation of a metapopulation. Ecological Modelling, 2010, 221, 2521-2525.	2.5	7
35	Total Variation Approximation for Quasi-Stationary Distributions. Journal of Applied Probability, 2010, 47, 934-946.	0.7	9
36	Modelling population processes with random initial conditions. Mathematical Biosciences, 2010, 223, 142-150.	1.9	5

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37	Limit theorems for discrete-time metapopulation models. <i>Probability Surveys</i> , 2010, 7, .	1.3	38
38	Quantitative Risk Stratification in Markov Chains with Limiting Conditional Distributions. <i>Medical Decision Making</i> , 2009, 29, 532-540.	2.4	2
39	On parameter estimation in population models II: Multi-dimensional processes and transient dynamics. <i>Theoretical Population Biology</i> , 2009, 75, 123-132.	1.1	34
40	Optimal Sampling and Problematic Likelihood Functions in a Simple Population Model. <i>Environmental Modeling and Assessment</i> , 2009, 14, 759-767.	2.2	15
41	Ensemble Behaviour in Population Processes with Applications to Ecological Systems. <i>Environmental Modeling and Assessment</i> , 2009, 14, 545-553.	2.2	0
42	Optimal capacity assignment in general queueing networks. <i>Springer Optimization and Its Applications</i> , 2009, , 261-272.	0.9	2
43	Survival in a quasi-death process. <i>Linear Algebra and Its Applications</i> , 2008, 429, 776-791.	0.9	22
44	METAPOPOPULATION PERSISTENCE IN A DYNAMIC LANDSCAPE: MORE HABITAT OR BETTER STEWARDSHIP. , 2008, 18, 590-598.		15
45	Ehrenfest model for condensation and evaporation processes in degrading aggregates with multiple bonds. <i>Physical Review E</i> , 2008, 78, 031117.	2.1	8
46	Stochastic models for the spread of HIV in a mobile heterosexual population. <i>Mathematical Biosciences</i> , 2007, 208, 98-124.	1.9	26
47	On costs and decisions in population management. <i>Ecological Modelling</i> , 2007, 201, 60-66.	2.5	8
48	Estimation for queues from queue length data. <i>Queueing Systems</i> , 2007, 55, 131-138.	0.9	32
49	A Remark on the Uniqueness of Weighted Markov Branching Processes. <i>Journal of Applied Probability</i> , 2007, 44, 279-283.	0.7	2
50	Computable Bounds for the Decay Parameter of a Birth-Death Process. <i>Journal of Applied Probability</i> , 2007, 44, 476-491.	0.7	8
51	A Note on Extinction Times for the General Birth, Death and Catastrophe Process. <i>Journal of Applied Probability</i> , 2007, 44, 566-569.	0.7	6
52	On parameter estimation in population models. <i>Theoretical Population Biology</i> , 2006, 70, 498-510.	1.1	36
53	Extinction times for a birth-death process with two phases. <i>Mathematical Biosciences</i> , 2006, 202, 310-322.	1.9	6
54	Uniqueness criteria for continuous-time Markov chains with general transition structures. <i>Advances in Applied Probability</i> , 2005, 37, 1056-1074.	0.7	13

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55	Approximating persistence in a general class of population processes. Theoretical Population Biology, 2005, 68, 77-90.	1.1	6
56	On the existence of uni-instantaneous Q-processes with a given finite $\hat{1}/4$ -invariant measure. Journal of Applied Probability, 2005, 42, 713-725.	0.7	1
57	Extinction times for a general birth, death and catastrophe process. Journal of Applied Probability, 2004, 41, 1211-1218.	0.7	4
58	Extinction times for a general birth, death and catastrophe process. Journal of Applied Probability, 2004, 41, 1211-1218.	0.7	19
59	Existence and Uniqueness of Q-Processes with a Given Finite μ -Invariant Measure. Australian and New Zealand Journal of Statistics, 2004, 46, 113-120.	0.9	1
60	The collision branching process. Journal of Applied Probability, 2004, 41, 1033-1048.	0.7	14
61	Product form approximations for highly linear loss networks with trunk reservation. Mathematical and Computer Modelling, 2003, 38, 1147-1156.	2.0	2
62	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
63	Integrals for continuous-time Markov chains. Mathematical Biosciences, 2003, 182, 213-225.	1.9	11
64	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
65	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	13
66	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
67	Path integrals for continuous-time Markov chains. Journal of Applied Probability, 2002, 39, 901-904.	0.7	14
68	Path integrals for continuous-time Markov chains. Journal of Applied Probability, 2002, 39, 901-904.	0.7	10
69	Two-Link Approximation Schemes for Loss Networks with Linear Structure and Trunk Reservation. Telecommunication Systems, 2002, 19, 187-207.	2.5	5
70	Identifying Q-Processes with a Given Finite $\hat{\mu}$ -Invariant Measure. , 2002, , 41-55.		0
71	Quasi-stationarity in populations that are subject to large-scale mortality or emigration. Environment International, 2001, 27, 231-236.	10.0	18
72	Title is missing!. Methodology and Computing in Applied Probability, 2001, 3, 75-95.	1.2	25

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73	Quasistationarity in continuous-time Markov chains where absorption is not certain. Journal of Applied Probability, 2000, 37, 598-600.	0.7	1
74	Further results on the relationship between $\hat{\pi}_t$ -invariant measures and quasi-stationary distributions for absorbing continuous-time Markov chains. Mathematical and Computer Modelling, 2000, 31, 107-113.	2.0	7
75	New methods for determining quasi-stationary distributions for markov chains. Mathematical and Computer Modelling, 2000, 31, 143-150.	2.0	4
76	Quasistationarity in continuous-time Markov chains where absorption is not certain. Journal of Applied Probability, 2000, 37, 598-600.	0.7	1
77	Modelling quasi-stationary behaviour in metapopulations. Mathematics and Computers in Simulation, 1999, 48, 393-405.	4.4	9
78	Quasistationary distributions for continuous time Markov chains when absorption is not certain. Journal of Applied Probability, 1999, 36, 268-272.	0.7	8
79	Quasistationary distributions for continuous time Markov chains when absorption is not certain. Journal of Applied Probability, 1999, 36, 268-272.	0.7	8
80	Non-explosivity of limits of conditioned birth and death processes. Journal of Applied Probability, 1997, 34, 35-45.	0.7	5
81	Limiting Conditional Distributions for Birthdeath Processes. Advances in Applied Probability, 1997, 29, 185-204.	0.7	35
82	Limiting Conditional Distributions for Birthdeath Processes. Advances in Applied Probability, 1997, 29, 185-204.	0.7	5
83	The quasi-stationary behavior of quasi-birth-and-death processes. Annals of Applied Probability, 1997, 7, .	1.3	27
84	Modelling the long-term behaviour of evanescent ecological systems. Ecological Modelling, 1996, 86, 135-139.	2.5	9
85	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
86	On the identification of continuous-time Markov chains with a given invariant measure. Journal of Applied Probability, 1994, 31, 897-910.	0.7	0
87	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
88	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
89	Poisson approximations for telecommunications networks. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1994, 36, 132-132.	0.2	0
90	On the identification of continuous-time Markov chains with a given invariant measure. Journal of Applied Probability, 1994, 31, 897-910.	0.7	5

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91	On the relationship between $\hat{\mu}$ -invariant measures and quasi-stationary distributions for continuous-time Markov chains. <i>Advances in Applied Probability</i> , 1993, 25, 82-102.	0.7	60
92	On the Problem of Establishing the Existence of Stationary Distributions for Continuous-Time Markov Chains. <i>Probability in the Engineering and Informational Sciences</i> , 1993, 7, 529-543.	0.8	18
93	On the relationship between $\hat{\mu}$ -invariant measures and quasi-stationary distributions for continuous-time Markov chains. <i>Advances in Applied Probability</i> , 1993, 25, 82-102.	0.7	9
94	Connecting internally balanced quasi-reversible Markov processes. <i>Advances in Applied Probability</i> , 1992, 24, 934-959.	0.7	11
95	Diffusion approximations for some simple chemical reaction schemes. <i>Advances in Applied Probability</i> , 1992, 24, 875-893.	0.7	14
96	Diffusion approximations for some simple chemical reaction schemes. <i>Advances in Applied Probability</i> , 1992, 24, 875-893.	0.7	11
97	Connecting internally balanced quasi-reversible Markov processes. <i>Advances in Applied Probability</i> , 1992, 24, 934-959.	0.7	6
98	Invariant measures for Q-processes when Q is not regular. <i>Advances in Applied Probability</i> , 1991, 23, 277-292.	0.7	8
99	Invariant measures for Q-processes when Q is not regular. <i>Advances in Applied Probability</i> , 1991, 23, 277-292.	0.7	8
100	On the construction problem for single-exit Markov chains. <i>Bulletin of the Australian Mathematical Society</i> , 1991, 43, 439-450.	0.5	11
101	Poisson approximations for telecommunications networks. <i>Journal of the Australian Mathematical Society Series B Applied Mathematics</i> , 1991, 32, 348-364.	0.2	3
102	On a model for interference between searching insect parasites. <i>Journal of the Australian Mathematical Society Series B Applied Mathematics</i> , 1990, 32, 133-150.	0.2	45
103	A description of the long-term behaviour of absorbing continuous-time Markov chains using a centre manifold. <i>Advances in Applied Probability</i> , 1990, 22, 111-128.	0.7	10
104	A note on the classification of Q-processes when Q is not regular. <i>Journal of Applied Probability</i> , 1990, 27, 278-290.	0.7	6
105	A note on the classification of Q-processes when Q is not regular. <i>Journal of Applied Probability</i> , 1990, 27, 278-290.	0.7	7
106	A description of the long-term behaviour of absorbing continuous-time Markov chains using a centre manifold. <i>Advances in Applied Probability</i> , 1990, 22, 111-128.	0.7	15
107	The supercritical birth, death and catastrophe process: limit theorems on the set of extinction. <i>Stochastic Processes and Their Applications</i> , 1989, 32, 161-170.	0.9	17
108	The generalized Kolmogorov criterion. <i>Stochastic Processes and Their Applications</i> , 1989, 33, 29-44.	0.9	14

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109	On the problem of evaluating quasistationary distributions for open reaction schemes. Journal of Statistical Physics, 1988, 53, 1207-1215.	1.2	12
110	Reversibility, invariance and $\hat{\mu}$ -invariance. Advances in Applied Probability, 1988, 20, 600-621.	0.7	61
111	Reversibility, invariance and $\hat{\mu}$ -invariance. Advances in Applied Probability, 1988, 20, 600-621.	0.7	10
112	Preserving partial balance in continuous-time Markov chains. Advances in Applied Probability, 1987, 19, 431-453.	0.7	16
113	Preserving partial balance in continuous-time Markov chains. Advances in Applied Probability, 1987, 19, 431-453.	0.7	12
114	Quasistationary distributions for autocatalytic reactions. Journal of Statistical Physics, 1987, 46, 249-254.	1.2	27
115	Connecting reversible Markov processes. Advances in Applied Probability, 1986, 18, 880-900.	0.7	23
116	Connecting reversible Markov processes. Advances in Applied Probability, 1986, 18, 880-900.	0.7	17
117	On the equivalence of $\hat{\mu}$ -invariant measures for the minimal process and its q-matrix. Stochastic Processes and Their Applications, 1986, 22, 203-221.	0.9	41
118	Sojourn times in closed queueing networks. Advances in Applied Probability, 1983, 15, 638-656.	0.7	67
119	Sojourn times in closed queueing networks. Advances in Applied Probability, 1983, 15, 638-656.	0.7	38
120	Some distributional approximations in Markovian queueing networks. Advances in Applied Probability, 1982, 14, 654-671.	0.7	23
121	Some distributional approximations in Markovian queueing networks. Advances in Applied Probability, 1982, 14, 654-671.	0.7	9