Shripad Tuljapurkar

List of Publications by Year
in descending order

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Version: 2024-02-01

112 papers	7,094 citations	66343 42 h-index	64796 79 g-index
152 all docs	152 docs citations	152 times ranked	5669 citing authors

#	Article	IF	Citations
1	Coupled dynamics of body mass and population growth in response to environmental change. Nature, 2010, 466, 482-485.	27.8	518
2	Population Dynamics in Variable Environments. Lecture Notes in Biomathematics, 1990, , .	0.3	431
3	A universal pattern of mortality decline in the G7 countries. Nature, 2000, 405, 789-792.	27.8	415
4	LONGEVITY CAN BUFFER PLANT AND ANIMAL POPULATIONS AGAINST CHANGING CLIMATIC VARIABILITY. Ecology, 2008, 89, 19-25.	3.2	386
5	Senescence rates are determined by ranking on the fastâ€“slow lifeâ€history continuum. Ecology Letters, 2008, 11, 664-673.	6.4	317
6	The Dynamics of Phenotypic Change and the Shrinking Sheep of St. Kilda. Science, 2009, 325, 464-467.	12.6	271
7	An uncertain life: Demography in random environments. Theoretical Population Biology, 1989, 35, 227-294.	1.1	238
8	The Many Growth Rates and Elasticities of Populations in Random Environments. American Naturalist, 2003, 162, 489-502.	2.1	223
9	Inequality in Life Spans and a New Perspective on Mortality Convergence Across Industrialized Countries. Population and Development Review, 2005, 31, 645-674.	2.1	218
10	The Evolutionary Demography of Ecological Change: Linking Trait Variation and Population Growth. Science, 2007, 315, 1571-1574.	12.6	196
11	Stochastic Population Forecasts for the United States: Beyond High, Medium, and Low. Journal of the American Statistical Association, 1994, 89, 1175-1189.	3.1	195
12	Using evolutionary demography to link life history theory, quantitative genetics and population ecology. Journal of Animal Ecology, 2010, 79, 1226-1240.	2.8	177
13	Population Dynamics in Variable Environments. VII. The Demography and Evolution of Iteroparity. American Naturalist, 1989, 133, 901-923.	2.1	152
14	Dynamic heterogeneity in life histories. Ecology Letters, 2009, 12, 93-106.	6.4	140
15	From stochastic environments to life histories and back. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1499-1509.	4.0	134
16	Why Men Matter: Mating Patterns Drive Evolution of Human Lifespan. PLoS ONE, 2007, 2, e785.	2.5	104
17	Neutral theory for life histories and individual variability in fitness components. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4684-4689.	7.1	100
18	The Dynamics of a Quantitative Trait in an Ageâ€Structured Population Living in a Variable Environment. American Naturalist, 2008, 172, 599-612.	2.1	96

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19	Temporal autocorrelation and stochastic population growth. Ecology Letters, 2006, 9, 327-337.	6.4	91
20	Loop Analysis: Evaluating Life History Pathways in Population Projection Matrices. Ecology, 1994, 75, 2410.	3.2	90
21	Limitations of GCTA as a solution to the missing heritability problem. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E61-70.	7.1	84
22	Plant populations track rather than buffer climate fluctuations. Ecology Letters, 2010, 13, 736-743.	6.4	80
23	Death and Taxes: Longer life, consumption, and social security. Demography, 1997, 34, 67-81.	2.5	72
24	Elasticities in Variable Environments: Properties and Implications. American Naturalist, 2005, 166, 481-495.	2.1	69
25	Dynamic heterogeneity and life history variability in the kittiwake. Journal of Animal Ecology, 2010, 79, 436-444.	2.8	69
26	Sexâ€specific demography and generalization of the Triversâ€“Willard theory. Nature, 2015, 526, 249-252.	27.8	69
27	Evolution of Delayed Reproduction in Uncertain Environments: A Lifeâ€History Perspective. American Naturalist, 2008, 172, 797-805.	2.1	68
28	Mortality Change and Forecasting. North American Actuarial Journal, 1998, 2, 13-47.	1.4	67
29	A time to grow and a time to die: a new way to analyze the dynamics of size, light, age, and death of tropical trees. Ecology, 2009, 90, 2766-2778.	3.2	67
30	Machine learning approaches to the social determinants of health in the health and retirement study. SSM - Population Health, 2018, 4, 95-99.	2.7	67
31	Using the Lee-Carter Method to Forecast Mortality for Populations with Limited Data*. International Statistical Review, 2007, 72, 19-36.	1.9	60
32	Population and prehistory I: Food-dependent population growth in constant environments. Theoretical Population Biology, 2008, 73, 473-482.	1.1	58
33	Influence of Life-History Tactics on Transient Dynamics: A Comparative Analysis across Mammalian Populations. American Naturalist, 2014, 184, 673-683.	2.1	58
34	FROM STAGE TO AGE IN VARIABLE ENVIRONMENTS: LIFE EXPECTANCY AND SURVIVORSHIP. Ecology, 2006, 87, 1497-1509.	3.2	57
35	Stage Dynamics, Period Survival, and Mortality Plateaus. American Naturalist, 2008, 172, 203-215.	2.1	56
36	Migration in Variable Environments: Exploring Life-history Evolution Using Structured Population Models. Journal of Theoretical Biology, 1994, 166, 75-90.	1.7	55

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37	Generation Time, Net Reproductive Rate, and Growth in Stage-Age-Structured Populations. American Naturalist, 2014, 183, 771-783.	2.1	55
38	PLANTâ€“ANIMAL INTERACTIONS IN RANDOM ENVIRONMENTS: HABITAT-STAGE ELASTICITY, SEED PREDATORS, AND HURRICANES. Ecology, 2005, 86, 3312-3322.	3.2	53
39	Population and prehistory II: Space-limited human populations in constant environments. Theoretical Population Biology, 2008, 74, 147-160.	1.1	52
40	Risky Business: Temporal and Spatial Variation in Preindustrial Dryland Agriculture. Human Ecology, 2006, 34, 739-763.	1.4	51
41	Reproductive Effort in Variable Environments, or Environmental Variation Is for the Birds. Ecology, 2001, 82, 2659.	3.2	50
42	Age distribution, trends, and forecasts of under-5 mortality in 31 sub-Saharan African countries: A modeling study. PLoS Medicine, 2019, 16, e1002757.	8.4	50
43	Demographic effects of extreme weather events on a shortâ€lived calcareous grassland species: stochastic life table response experiments. Journal of Ecology, 2010, 98, 255-267.	4.0	49
44	The effects of asymmetric competition on the life history of Trinidadian guppies. Ecology Letters, 2016, 19, 268-278.	6.4	47
45	Variance in death and its implications for modeling and forecasting mortality. Demographic Research, 2011, 24, 497-526.	3.0	43
46	Time, transients and elasticity. Ecology Letters, 2007, 10, 1143-1153.	6.4	41
47	Escape in time: stay young or age gracefully?. Ecological Modelling, 2000, 133, 143-159.	2.5	40
48	Advancing front of old-age human survival. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11209-11214.	7.1	40
49	Population dynamics in variable environments. VI. Cyclical environments. Theoretical Population Biology, 1985, 28, 1-17.	1.1	39
50	Population and prehistory III: Food-dependent demography in variable environments. Theoretical Population Biology, 2009, 76, 179-188.	1.1	34
51	The Invisible Cliff: Abrupt Imposition of Malthusian Equilibrium in a Natural-Fertility, Agrarian Society. PLoS ONE, 2014, 9, e87541.	2.5	34
52	Stochastic Population Forecasts for the United States: Beyond High, Medium, and Low. Journal of the American Statistical Association, 1994, 89, 1175.	3.1	33
53	Cycles in nonlinear age-structured models I. Renewal equations. Theoretical Population Biology, 1987, 32, 26-41.	1.1	32
54	Population momentum for gradual demographic transitions. Population Studies, 1999, 53, 255-262.	2.1	32

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55	Sensitivity of the population growth rate to demographic variability within and between phases of the disturbance cycle. Ecology Letters, 2006, 9, 1331-1341.	6.4	30
56	Quantifying the influence of measured and unmeasured individual differences on demography. Journal of Animal Ecology, 2015, 84, 1434-1445.	2.8	30
57	Skewed distributions of lifetime reproductive success: beyond mean and variance. Ecology Letters, 2020, 23, 748-756.	6.4	29
58	Equity and length of lifespan are not the same. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8420-8423.	7.1	28
59	Static and dynamic expression of life history traits in the northern fulmar Fulmarus glacialis. Oikos, 2011, 120, 369-380.	2.7	27
60	Racial and Socioeconomic Variation in Genetic Markers of Telomere Length: A Cross-Sectional Study of U.S. Older Adults. EBioMedicine, 2016, 11, 296-301.	6.1	27
61	Trading stages: Life expectancies in structured populations. Experimental Gerontology, 2012, 47, 773-781.	2.8	26
62	Defoliation and bark harvesting affect lifeâ€history traits of a tropical tree. Journal of Ecology, 2013, 101, 1563-1571.	4.0	26
63	Demography in stochastic environments. Journal of Mathematical Biology, 1986, 24, 569-581.	1.9	25
64	Stochastic population forecasts and their uses. International Journal of Forecasting, 1992, 8, 385-391.	6.5	25
65	The solution of timeâ€dependent population models. Mathematical Population Studies, 2000, 7, 311-329.	2.2	23
66	Demographic and clinical profiles of Plasmodium falciparum and Plasmodium vivax patients at a tertiary care centre in southwestern India. Malaria Journal, 2016, 15, 569.	2.3	22
67	Contributions of Covariance: Decomposing the Components of Stochastic Population Growth in Cypripedium calceolus. American Naturalist, 2013, 181, 410-420.	2.1	21
68	Validation, probability-weighted priors, and information in stochastic forecasts. International Journal of Forecasting, 1999, 15, 259-271.	6.5	20
69	Deciphering life history transcriptomes in different environments. Molecular Ecology, 2015, 24, 151-179.	3.9	20
70	Sex ratio at birth and son preference. Mathematical Population Studies, 2000, 8, 91-107.	2.2	19
71	How can economic schemes curtail the increasing sex ratio at birth in China?. Demographic Research, 2008, 19, 1831-1850.	3.0	17
72	Measuring selective constraint on fertility in human life histories. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8982-8986.	7.1	17

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73	Poverty dynamics, poverty thresholds and mortality: An age-stage Markovian model. PLoS ONE, 2018, 13, e0195734.	2.5	17
74	Lifeâ€history strategy varies with the strength of competition in a foodâ€limited ungulate population. Ecology Letters, 2020, 23, 811-820.	6.4	17
75	Disease in changing populations: Growth and disequilibrium. Theoretical Population Biology, 1991, 40, 322-353.	1.1	16
76	Disaggregatton in population forecasting: Do we need it? And how to do it simply. Mathematical Population Studies, 1995, 5, 217-234.	2.2	16
77	Des diffÃ©rences, pourquoi? Transmission, maintenance and effects of phenotypic variance. Journal of Animal Ecology, 2016, 85, 356-370.	2.8	16
78	Entropy and convergence in dynamics and demography. Journal of Mathematical Biology, 1993, 31, 253-271.	1.9	15
79	Dynamic heterogeneity and life histories. Annals of the New York Academy of Sciences, 2010, 1204, 65-72.	3.8	15
80	Stochastic LTRE analysis of the effects of herbivory on the population dynamics of a perennial grassland herb. Oikos, 2012, 121, 211-218.	2.7	15
81	Linking the population growth rate and the age-at-death distribution. Theoretical Population Biology, 2012, 82, 244-252.	1.1	14
82	Future Mortality: A Bumpy Road to Shangri-La?. Science of Aging Knowledge Environment: SAGE KE, 2005, 2005, pe9-pe9.	0.8	14
83	Estimating stochastic elasticities directly from longitudinal data. Ecology Letters, 2009, 12, 806-812.	6.4	13
84	Environmental variance, population growth and evolution. Journal of Animal Ecology, 2010, 79, 1-3.	2.8	12
85	Derivatives of the stochastic growth rate. Theoretical Population Biology, 2011, 80, 1-15.	1.1	12
86	Distinct genomic architecture of Plasmodium falciparum populations from South Asia. Molecular and Biochemical Parasitology, 2016, 210, 1-4.	1.1	12
87	Linking demographic responses and life history tactics from longitudinal data in mammals. Oikos, 2016, 125, 395-404.	2.7	12
88	A New Way to Integrate Selection When Both Demography and Selection Gradients Vary over Time. International Journal of Plant Sciences, 2010, 171, 945-959.	1.3	9
89	Susceptibility of wild and colonized Anopheles stephensi to Plasmodium vivax infection. Malaria Journal, 2018, 17, 225.	2.3	9
90	Modeling extreme climatic events using the generalized extreme value (GEV) distribution. Handbook of Statistics, 2021, , 39-71.	0.6	9

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91	Taking the measure of uncertainty. Nature, 1997, 387, 760-761.	27.8	8
92	Beyond the mean: sensitivities of the variance of population growth. Methods in Ecology and Evolution, 2013, 4, 290-298.	5.2	8
93	How climate affects extreme events and hence ecological population models. Ecology, 2019, 100, e02684.	3.2	8
94	Distributions of LRS in varying environments. Ecology Letters, 2021, 24, 1328-1340.	6.4	8
95	Babies make a comeback. Nature, 2009, 460, 693-694.	27.8	7
96	Reply to Yang et al.: GCTA produces unreliable heritability estimates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4581.	7.1	7
97	Relative contributions of fixed and dynamic heterogeneity to variation in lifetime reproductive success in kestrels (<scp>Falco tinnunculus</scp>). Population Ecology, 2020, 62, 408-424.	1.2	7
98	Quantifying the effect of genetic, environmental and individual demographic stochastic variability for population dynamics in Plantago lanceolata. Scientific Reports, 2021, 11, 23174.	3.3	7
99	Convergence in male and female life expectancy: Direction, age pattern, and causes. Demographic Research, 0, 34, 1063-1074.	3.0	6
100	Detecting variability in demographic rates: randomization with the Kullbackâ€“Leibler distance. Journal of Ecology, 2007, 95, 1370-1380.	4.0	5
101	Climate, rather than human disturbance, is the main driver of age-specific mortality trajectories in a tropical tree. Ecological Modelling, 2019, 400, 34-40.	2.5	5
102	Structured Population Models: Introduction. Theoretical Population Biology, 2012, 82, 241-243.	1.1	4
103	Gompertz law revisited: Forecasting mortality with a multi-factor exponential model. Insurance: Mathematics and Economics, 2021, 99, 268-281.	1.2	4
104	Drivers of diversity in individual life courses: Sensitivity of the population entropy of a Markov chain. Theoretical Population Biology, 2020, 133, 159-167.	1.1	4
105	Stochastic Models for Structured Populations. Handbook of Statistics, 2019, , 133-155.	0.6	2
106	Demographic determinants of the phenotypic motherâ€“offspring correlation. Ecological Monographs, 2021, 91, e01479.	5.4	2
107	Demography in the 21st century: Introduction. Theoretical Population Biology, 2004, 65, 317.	1.1	1
108	Demography as the Human Story. Population and Development Review, 2011, 37, 166-171.	2.1	1

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109	Editorial for the Special Issue: Biodemographic determinants of lifespan. Experimental Gerontology, 2012, 47, 755-758.	2.8	0
110	Mutations and the age pattern of death. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10057-10058.	7.1	0
111	The changing trend of life expectancy for the Chinese elderly and its ruralâ€“urban disparity. China Population and Development Studies, 2021, 5, 25-40.	1.4	0
112	Mutations and the Distribution of Lifetime Reproductive Success. Journal of the Indian Institute of Science, 2022, 102, 1269-1275.	1.9	0