

James R Carey

List of Publications by Year in descending order

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128
papers

6,100
citations

76326

40
h-index

79698

73
g-index

129
all docs

129
docs citations

129
times ranked

4543
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodemographic Trajectories of Longevity. <i>Science</i> , 1998, 280, 855-860.	12.6	918
2	Eradication revisited: dealing with exotic species. <i>Trends in Ecology and Evolution</i> , 2000, 15, 316-320.	8.7	686
3	INSECTBIODEMOGRAPHY. <i>Annual Review of Entomology</i> , 2001, 46, 79-110.	11.8	258
4	MOSQUITOES DO SENESCE: DEPARTURE FROM THE PARADIGM OF CONSTANT MORTALITY. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007, 76, 111-117.	1.4	148
5	Nutrition Mediates Reproductive Trade-Offs with Age-Specific Mortality in the Beetle <i>Callosobruchus Maculatus</i> . <i>Ecology</i> , 1995, 76, 2066-2073.	3.2	131
6	Age of ovary determines remaining life expectancy in old ovariectomized mice. <i>Aging Cell</i> , 2003, 2, 185-190.	6.7	120
7	Fertility and Life Span: Late Children Enhance Female Longevity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2002, 57, B202-B206.	3.6	109
8	Longevityâ€“fertility tradeâ€“offs in the tephritid fruit fly, <i>Anastrepha ludens</i> , across dietaryâ€“restriction gradients. <i>Aging Cell</i> , 2008, 7, 470-477.	6.7	108
9	LONG-TERM COST OF REPRODUCTION WITH AND WITHOUT ACCELERATED SENESCENCE IN <i>CALLOSOPRUCHUS MACULATUS</i> : ANALYSIS OF AGE-SPECIFIC MORTALITY. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1302-1312.	2.3	102
10	AGING: It's Never Too Late. <i>Science</i> , 2003, 301, 1679-1681.	12.6	101
11	From trickle to flood: the large-scale, cryptic invasion of California by tropical fruit flies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131466.	2.6	98
12	Life history response of Mediterranean fruit flies to dietary restriction. <i>Aging Cell</i> , 2002, 1, 140-148.	6.7	93
13	The Incipient Mediterranean Fruit Fly Population in California: Implications for Invasion Biology. <i>Ecology</i> , 1996, 77, 1690-1697.	3.2	92
14	Transplantation of Young Ovaries to Old Mice Increased Life Span in Transplant Recipients. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 1207-1211.	3.6	84
15	Altitudinal variation for senescence in <i>Melanoplus</i> grasshoppers. <i>Oecologia</i> , 1997, 111, 357-364.	2.0	78
16	Demography and population dynamics of the mediterranean fruit fly. <i>Ecological Modelling</i> , 1982, 16, 125-150.	2.5	77
17	Mosquitoes do senesce: departure from the paradigm of constant mortality. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007, 76, 111-7.	1.4	77
18	Life Span Extension in Humans Is Self-Reinforcing: A General Theory of Longevity. <i>Population and Development Review</i> , 2001, 27, 411-436.	2.1	76

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19	What demographers can learn from fruit fly actuarial models and biology. <i>Demography</i> , 1997, 34, 17-30.	2.5	73
20	Overwintering of the Mediterranean Fruit Fly (Diptera: Tephritidae) in Northern Greece. <i>Annals of the Entomological Society of America</i> , 1996, 89, 526-534.	2.5	72
21	Age-specific and lifetime behavior patterns in <i>Drosophila melanogaster</i> and the Mediterranean fruit fly, <i>Ceratitis capitata</i> . <i>Experimental Gerontology</i> , 2006, 41, 93-97.	2.8	71
22	Reproductive potential predicts longevity of female Mediterranean fruitflies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 445-450.	2.6	65
23	Mortality dynamics of density in the mediterranean fruit fly. <i>Experimental Gerontology</i> , 1995, 30, 605-629.	2.8	64
24	Long-Term Cost of Reproduction with and without Accelerated Senescence in <i>Callosobruchus maculatus</i> : Analysis of Age-Specific Mortality. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1302.	2.3	63
25	Early Detection and Population Monitoring of <i>Ceratitis capitata</i> (Diptera: Tephritidae) in a Mixed-Fruit Orchard in Northern Greece. <i>Journal of Economic Entomology</i> , 2001, 94, 971-978.	1.8	62
26	Demographic window to aging in the wild: constructing life tables and estimating survival functions from marked individuals of unknown age. <i>Aging Cell</i> , 2004, 3, 125-131.	6.7	62
27	A Demographic Analysis of the Fitness Cost of Extended Longevity in <i>Caenorhabditis elegans</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 126-135.	3.6	61
28	Seasonal and Annual Occurrence of Mediterranean Fruit Flies (Diptera: Tephritidae) on Chios Island, Greece: Differences between Two Neighboring Citrus Orchards. <i>Annals of the Entomological Society of America</i> , 1998, 91, 43-51.	2.5	60
29	The multiple decrement life table: a unifying framework for cause-of-death analysis in ecology. <i>Oecologia</i> , 1989, 78, 131-137.	2.0	58
30	Comparison of Demographic Parameters for Wild and Laboratory-Adapted Mediterranean Fruit Fly (Diptera: Tephritidae). <i>Annals of the Entomological Society of America</i> , 1989, 82, 55-59.	2.5	57
31	Cost of reproduction in male medflies: The primacy of sexual courting in extreme longevity reduction. <i>Journal of Insect Physiology</i> , 2010, 56, 283-287.	2.0	57
32	A Male-Female Longevity Paradox in Medfly Cohorts. <i>Journal of Animal Ecology</i> , 1995, 64, 107.	2.8	51
33	Comparative approaches to facilitate the discovery of prolongevity interventions: Effects of tocopherols on lifespan of three invertebrate species. <i>Mechanisms of Ageing and Development</i> , 2007, 128, 222-226.	4.6	51
34	Population Biology of Aging in the Wild. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014, 45, 421-443.	8.3	49
35	Distinct biological epochs in the reproductive life of female <i>Drosophila melanogaster</i> . <i>Mechanisms of Ageing and Development</i> , 2007, 128, 477-485.	4.6	48
36	Age structure changes and extraordinary lifespan in wild medfly populations. <i>Aging Cell</i> , 2008, 7, 426-437.	6.7	45

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37	The prolongevity effect of resveratrol depends on dietary composition and calorie intake in a tephritid fruit fly. <i>Experimental Gerontology</i> , 2009, 44, 472-476.	2.8	44
38	The future of the Mediterranean fruit fly <i>Ceratitis capitata</i> invasion of California: A predictive framework. <i>Biological Conservation</i> , 1996, 78, 35-50.	4.1	43
39	Supine behaviour predicts the time to death in male Mediterranean fruitflies (<i>Ceratitis capitata</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1633-1637.	2.6	43
40	Population-specific demography and invasion potential in medfly. <i>Ecology and Evolution</i> , 2011, 1, 479-488.	1.9	43
41	Comparative Survival and Demographic Statistics for Wild Oriental Fruit Fly, Mediterranean Fruit Fly, and Melon Fly (Diptera: Tephritidae) on Papaya. <i>Journal of Economic Entomology</i> , 1990, 83, 1344-1349.	1.8	41
42	Reproductive tactics influence cortisol levels in individual male gray-cheeked mangabeys (<i>Lophocebus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	41
43	Demographic Analysis of Insect Mass Rearing: A Case Study of Three Tephritids. <i>Journal of Economic Entomology</i> , 1985, 78, 523-527.	1.8	40
44	Life history evolution in a globally invading tephritid: patterns of survival and reproduction in medflies from six world regions. <i>Biological Journal of the Linnean Society</i> , 0, 97, 106-117.	1.6	40
45	Biodemography of a long-lived tephritid: Reproduction and longevity in a large cohort of female Mexican fruit flies,. <i>Experimental Gerontology</i> , 2005, 40, 793-800.	2.8	39
46	Virgin females compete for mates in the male lekking species <i>Ceratitis capitata</i> . <i>Physiological Entomology</i> , 2009, 34, 238-245.	1.5	38
47	Sex-specific life table aging rates in large medfly cohorts. <i>Experimental Gerontology</i> , 1995, 30, 315-325.	2.8	35
48	Temporal Changes in the Composition of the Overwintering Larval Population of the Mediterranean Fruit Fly (Diptera: Tephritidae) in Northern Greece. <i>Annals of the Entomological Society of America</i> , 1998, 91, 430-434.	2.5	34
49	Ancestral populations perform better in a novel environment: domestication of Mediterranean fruit fly populations from five global regions. <i>Biological Journal of the Linnean Society</i> , 2011, 102, 334-345.	1.6	34
50	High sexual signalling rates of young individuals predict extended life span in male Mediterranean fruit flies. <i>Oecologia</i> , 2004, 138, 127-134.	2.0	33
51	Longevity minimalists: life table studies of two species of northern Michigan adult mayflies. <i>Experimental Gerontology</i> , 2002, 37, 567-570.	2.8	32
52	Transplantation of young ovaries restored cardioprotective influence in postreproductive-aged mice. <i>Aging Cell</i> , 2011, 10, 448-456.	6.7	31
53	Biodemography of the Mediterranean fruit fly: Aging, longevity and adaptation in the wild. <i>Experimental Gerontology</i> , 2011, 46, 404-411.	2.8	31
54	An Age-Structured Extension to the Vectorial Capacity Model. <i>PLoS ONE</i> , 2012, 7, e39479.	2.5	31

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55	Medfly populations differ in diel and age patterns of sexual signalling. <i>Entomologia Experimentalis Et Applicata</i> , 2008, 128, 389-397.	1.4	30
56	Recording Lifetime Behavior and Movement in an Invertebrate Model. <i>PLoS ONE</i> , 2011, 6, e18151.	2.5	30
57	Condition-Dependent Effects of Mating on Longevity and Fecundity of Female Medflies: The Interplay between Nutrition and Age of Mating. <i>PLoS ONE</i> , 2013, 8, e70181.	2.5	30
58	Stochastic dietary restriction using a Markov-chain feeding protocol elicits complex, life history response in medflies. <i>Aging Cell</i> , 2005, 4, 31-39.	6.7	28
59	Survival and aging in the wild via residual demography. <i>Theoretical Population Biology</i> , 2007, 72, 513-522.	1.1	27
60	Dual reproductive cost of aging in male medflies: Dramatic decrease in mating competitiveness and gradual reduction in mating performance. <i>Journal of Insect Physiology</i> , 2011, 57, 1368-1374.	2.0	27
61	Demographic analysis of insect reproductive levels, patterns and heterogeneity: case study of laboratory strains of three Hawaiian tephritids. <i>Entomologia Experimentalis Et Applicata</i> , 1988, 46, 85-91.	1.4	24
62	Sex Mortality Differentials in the Bean Beetle: Reframing the Question. <i>American Naturalist</i> , 1994, 144, 165-175.	2.1	24
63	Amino acid sources in the adult diet do not affect life span and fecundity in the fruit fly <i>Bicyclus anynana</i> . <i>Ecological Entomology</i> , 2008, 33, 429-438.	2.2	23
64	Prolongevity Effects of an Oregano and Cranberry Extract are Diet Dependent in the Mexican Fruit Fly (<i>Anastrepha ludens</i>). <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 41-50.	3.6	23
65	Effects of diet and host access on fecundity and lifespan in two fruit fly species with different life history patterns. <i>Physiological Entomology</i> , 2013, 38, 81-88.	1.5	23
66	Comparative demography of a laboratory and a wild strain of the oriental fruit fly, <i>Dacus dorsalis</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1987, 44, 263-268.	1.4	22
67	Continuous Winter Reproduction and Growth of the Mediterranean Fruit Fly (Diptera: Tephritidae) in Heraklion, Crete, Southern Greece. <i>Environmental Entomology</i> , 2000, 29, 1180-1187.	1.4	22
68	Adult diet affects lifespan and reproduction of the fruit feeding butterfly <i>Charaxes fulvescens</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2008, 129, 54-65.	1.4	22
69	The Mediterranean Fruit Fly (<i>Ceratitis capitata</i>). <i>American Entomologist</i> , 2010, 56, 158-163.	0.2	22
70	From Genes to Societies. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, 5pe-5.	0.8	22
71	Social factors increase fecal testosterone levels in wild male gray-cheeked mangabeys (<i>Lophocebus</i>). <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	2.1	20
72	The 30-Year Debate on a Multi-Billion-Dollar Threat: Tephritid Fruit Fly Establishment in California. <i>American Entomologist</i> , 2017, 63, 100-113.	0.2	20

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73	GENETICS OF MORTALITY IN THE BEAN BEETLE <i>CALLOSOBROCHUS MACULATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1371-1376.	2.3	19
74	Prolongevity effects of a botanical with oregano and cranberry extracts in Mexican fruit flies: examining interactions of diet restriction and age. <i>Age</i> , 2012, 34, 269-279.	3.0	19
75	Does dietary restriction reduce life span in male fruit-feeding butterflies?. <i>Experimental Gerontology</i> , 2009, 44, 601-606.	2.8	18
76	Lifespan of a <i>Ceratitis</i> fruit fly increases with higher altitude. <i>Biological Journal of the Linnean Society</i> , 2010, 101, 345-350.	1.6	18
77	Social and Ecological Correlates of Parasitic Infections in Adult Male Gray-Cheeked Mangabeys (<i>Lophocebus albigena</i>). <i>International Journal of Primatology</i> , 2015, 36, 967-986.	1.9	18
78	<i>Biodemography</i> . , 2005, , 625-658.		17
79	Generalization of Carey's equality and a theorem on stationary population. <i>Journal of Mathematical Biology</i> , 2015, 71, 583-594.	1.9	17
80	A mortality cost of virginity at older ages in female Mediterranean fruit flies. <i>Experimental Gerontology</i> , 2002, 37, 507-512.	2.8	16
81	Reproduction is adapted to survival characteristics across geographically isolated medfly populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4409-4416.	2.6	16
82	Life table assay of field-caught Mediterranean fruit flies, <i>Ceratitis capitata</i> , reveals age bias. <i>Entomologia Experimentalis Et Applicata</i> , 2009, 132, 172-181.	1.4	16
83	Reproductive aging in tephritid fruit flies. <i>Annals of the New York Academy of Sciences</i> , 2010, 1204, 139-148.	3.8	16
84	Demographic framework for parasitoid mass rearing: Case study of <i>Biosteres tryoni</i> , a larval parasitoid of tephritid fruit flies. <i>Theoretical Population Biology</i> , 1988, 34, 279-296.	1.1	15
85	Mass Rearing of <i>Anastrepha</i> (Diptera: Tephritidae) Fruit Flies: A Demographic Analysis. <i>Journal of Economic Entomology</i> , 1994, 87, 176-180.	1.8	15
86	Comparative Demography of Two Cucurbit-Attacking Fruit Flies, <i>Bactrocera tau</i> and <i>B. cucurbitae</i> (Diptera: Tephritidae). <i>Annals of the Entomological Society of America</i> , 1994, 87, 538-545.	2.5	15
87	The interplay among dietary fat, sugar, protein and aï¿½ai (<i>Euterpe oleracea</i> Mart.) pulp in modulating lifespan and reproduction in a Tephritid fruit fly. <i>Experimental Gerontology</i> , 2012, 47, 536-539.	2.8	15
88	Nutrients in fruit increase fertility in wild-caught females of large and long-lived <i>Euphaedra</i> species (Lepidoptera, Nymphalidae). <i>Journal of Insect Physiology</i> , 2009, 55, 375-383.	2.0	14
89	Ovarian status influenced the rate of body-weight change but not the total amount of body-weight gained or lost in female CBA/J mice. <i>Experimental Gerontology</i> , 2010, 45, 435-441.	2.8	14
90	Graphical and demographic synopsis of the captive cohort method for estimating population age structure in the wild. <i>Experimental Gerontology</i> , 2012, 47, 787-791.	2.8	14

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91	A FUNCTIONAL MULTIPLICATIVE EFFECTS MODEL FOR LONGITUDINAL DATA, WITH APPLICATION TO REPRODUCTIVE HISTORIES OF FEMALE MEDFLIES. <i>Statistica Sinica</i> , 2003, 13, 1119-1133.	0.3	14
92	Genetics of Mortality in the Bean Beetle <i>Callosobruchus maculatus</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1371.	2.3	13
93	Behavioral trajectories as predictors in event history analysis: Male calling behavior forecasts medfly longevity. <i>Mechanisms of Ageing and Development</i> , 2006, 127, 680-686.	4.6	13
94	Estimating changes in mean population age using the death distributions of live-captured medflies. <i>Ecological Entomology</i> , 2012, 37, 359-369.	2.2	13
95	Maternal Investment and Infant Survival in Gray-Cheeked Mangabeys (<i>Lophocebus albigena</i>). <i>International Journal of Primatology</i> , 2014, 35, 476-490.	1.9	13
96	Female access and diet affect insemination success, senescence and the cost of reproduction in the male Mexican fruit fly <i>Anastrepha ludens</i> . <i>Physiological Entomology</i> , 2015, 40, 65-71.	1.5	13
97	Determinants of Reproductive Performance Among Female Gray-Cheeked Mangabeys (<i>Lophocebus</i>)	1.9	12
98	Demographic analysis of mite populations: extensions of stable theory. <i>Experimental and Applied Acarology</i> , 1988, 4, 191-210.	1.6	11
99	Seasonality of Post-capture Longevity in a Medically-Important Mosquito (<i>Culex pipiens</i>). <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	10
100	The failure of success: cyclic recurrences of a globally invasive pest. <i>Ecological Applications</i> , 2019, 29, e01991.	3.8	10
101	Effects of early-life protein starvation on longevity and sexual performance of male medfly. <i>PLoS ONE</i> , 2019, 14, e0219518.	2.5	10
102	Life table invasion models: spatial progression and species-specific partitioning. <i>Ecology</i> , 2019, 100, e02682.	3.2	10
103	Mortality Dynamics of Insects: General Principles Derived from Aging Research on the Mediterranean Fruit Fly (Diptera: Tephritidae). <i>American Entomologist</i> , 1999, 45, 49-55.	0.2	8
104	The Life Table Population Identity: Discovery, Formulations, Proof, Extensions, and Applications. <i>Handbook of Statistics</i> , 2018, 39, 155-186.	0.6	8
105	Interrelations and Applications of Mathematical Demography to Selected Problems in Fruit Fly Management. , 1986, , 227-262.		8
106	Laboratory Studies of the Mediterranean Fruit Fly (Diptera: Tephritidae) in Coffee. <i>Environmental Entomology</i> , 1989, 18, 103-110.	1.4	7
107	Leg impairments elicit graded and sex-specific demographic responses in the tephritid fruit fly <i>Anastrepha ludens</i> . <i>Experimental Gerontology</i> , 2009, 44, 541-545.	2.8	7
108	Seasonal trends in <i>Ceratitis capitata</i> reproductive potential derived from live-caught females in Greece. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 140, 181-188.	1.4	7

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109	Leg impairment magnifies reproductive costs in male <i>Mediterranean fruit flies</i> , <i>Ceratitis capitata</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2013, 147, 73-81.	1.4	7
110	Clear, Present, Significant, & Imminent Danger Questions for the California Light Brown Apple Moth (<i>Epiphyas postvittana</i>) Technical Working Group. <i>American Entomologist</i> , 2013, 59, 240-247.	0.2	7
111	Differential response to larval crowding of a long-lived and a short-lived medfly biotype. <i>Journal of Evolutionary Biology</i> , 2020, 33, 329-341.	1.7	7
112	Reproduction and survival in Mediterranean fruit flies: a "protein and energy" free radical model of aging. <i>Biogerontology</i> , 2003, 4, 387-395.	3.9	6
113	Date of eclosion modulates longevity: Insights across dietary-restriction gradients and female reproduction in the medfly <i>Anastrepha ludens</i> . <i>Experimental Gerontology</i> , 2009, 44, 718-726.	2.8	6
114	Deleterious effect of suboptimal diet on rest-activity cycle in <i>Anastrepha ludens</i> manifests itself with age. <i>Scientific Reports</i> , 2013, 3, 1773.	3.3	6
115	On the Three Properties of Stationary Populations and Knotting with Non-stationary Populations. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 4233-4250.	1.9	6
116	The Medfly as a Frailty Model: Implications for Biodemographic Research. , 2005, , 1-15.		5
117	Exceptional Longevity in the Tephritid, <i>Ceratitis rosa</i> , a Close Relative of the Mediterranean Fruit Fly. <i>Journal of Economic Entomology</i> , 2012, 105, 371-373.	1.8	5
118	Tephritid Pest Populations Oriental Fruit Fly Outbreaks in California: 48 Consecutive Years, 235 Cities, 1,500 Detections—and Counting. <i>American Entomologist</i> , 2017, 63, 232-236.	0.2	5
119	Age, sex, adult and larval diet shape starvation resistance in the Mediterranean fruit fly: an ecological and gerontological perspective. <i>Scientific Reports</i> , 2019, 9, 10704.	3.3	5
120	Principes de biodemographie avec reference particuliere a la longevite humaine. <i>Population</i> , 2001, 56, 13.	0.3	4
121	Dietary effects on sex-specific health dynamics of medfly: Support for the dynamic equilibrium model of aging. <i>Experimental Gerontology</i> , 2011, 46, 1026-1030.	2.8	4
122	Response to commentary by Gutierrez et al.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132989.	2.6	4
123	Measuring Mortality and Reproduction in Large Cohorts of the Mediterranean Fruit Fly. , 1999, , 111-124.		3
124	27 Biodemography. <i>Handbooks of Sociology and Social Research</i> , 2019, , 713-745.	0.1	2
125	Distinctive egg-laying patterns in terminal versus non-terminal periods in three fruit fly species. <i>Experimental Gerontology</i> , 2021, 145, 111201.	2.8	1
126	Quantifying functionals of age distributions in the wild by solving an operator equation. <i>Journal of Mathematical Biology</i> , 2017, 75, 973-984.	1.9	0

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127	Behavior of Stationary Population Identity in Two-Dimensions: Age and Proportion of Population Truncated in Follow-up. Handbook of Statistics, 2019, , 487-500.	0.6	0
128	Demographic Framework for Analysis of Insect Life Histories. Lecture Notes in Statistics, 1989, , 206-218.	0.2	0