

Jin Yoshimura

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,485
citations

331259

21
h-index

377514

34
g-index

99
all docs

99
docs citations

99
times ranked

1455
citing authors

#	ARTICLE	IF	CITATIONS
1	Individual adaptations in stochastic environments. <i>Evolutionary Ecology</i> , 1991, 5, 173-192.	0.5	145
2	The Evolutionary Origins of Periodical Cicadas During Ice Ages. <i>American Naturalist</i> , 1997, 149, 112-124.	1.0	95
3	Mitochondrial Genomics Reveals Shared Phylogeographic Patterns and Demographic History among Three Periodical Cicada Species Groups. <i>Molecular Biology and Evolution</i> , 2019, 36, 1187-1200.	3.5	92
4	Evolution and population dynamics in stochastic environments. <i>Researches on Population Ecology</i> , 1996, 38, 165-182.	0.9	67
5	Independent divergence of 13- and 17-y life cycles among three periodical cicada lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6919-6924.	3.3	51
6	Initial hydraulic failure followed by late-stage carbon starvation leads to drought-induced death in the tree <i>Trema orientalis</i> . <i>Communications Biology</i> , 2019, 2, 8.	2.0	48
7	Red Queen dynamics in multi-host and multi-parasite interaction system. <i>Scientific Reports</i> , 2015, 5, 10004.	1.6	45
8	Lazy workers are necessary for long-term sustainability in insect societies. <i>Scientific Reports</i> , 2016, 6, 20846.	1.6	45
9	Multi-species coexistence in Lotka-Volterra competitive systems with crowding effects. <i>Scientific Reports</i> , 2018, 8, 1198.	1.6	42
10	The dynamics of carbon stored in xylem sapwood to drought-induced hydraulic stress in mature trees. <i>Scientific Reports</i> , 2016, 6, 24513.	1.6	39
11	Asymptotic stability of a modified Lotka-Volterra model with small immigrations. <i>Scientific Reports</i> , 2018, 8, 7029.	1.6	35
12	Grazing enhances species diversity in grassland communities. <i>Scientific Reports</i> , 2019, 9, 11201.	1.6	34
13	Anthropogenic effects on a tropical forest according to the distance from human settlements. <i>Scientific Reports</i> , 2015, 5, 14689.	1.6	33
14	Host-parasite Red Queen dynamics with phase-locked rare genotypes. <i>Science Advances</i> , 2016, 2, e1501548.	4.7	33
15	A measure for spatial heterogeneity of a grassland vegetation based on the beta-binomial distribution. <i>Journal of Vegetation Science</i> , 2000, 11, 627-632.	1.1	29
16	Spatial heterogeneity in a grassland community: Use of power law. <i>Ecological Research</i> , 2001, 16, 487-495.	0.7	28
17	Allee effect in the selection for prime-numbered cycles in periodical cicadas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8975-8979.	3.3	28
18	Fine-tuned Bee-Flower Coevolutionary State Hidden within Multiple Pollination Interactions. <i>Scientific Reports</i> , 2014, 4, 3988.	1.6	28

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19	A simple population theory for mutualism by the use of lattice gas model. <i>Ecological Modelling</i> , 2011, 222, 2042-2048.	1.2	27
20	Spatial coexistence of phytoplankton species in ecological timescale. <i>Population Ecology</i> , 2006, 48, 107-112.	0.7	26
21	The paradox of enrichment in phytoplankton by induced competitive interactions. <i>Scientific Reports</i> , 2013, 3, 2835.	1.6	24
22	SELECTION FOR PRIME-NUMBER INTERVALS IN A NUMERICAL MODEL OF PERIODICAL CICADA EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 288-294.	1.1	21
23	Measures of spatial heterogeneity for species occurrence or disease incidence with finite-counts. <i>Ecological Research</i> , 2000, 15, 13-20.	0.7	19
24	Historical effect in the territoriality of ayu fish. <i>Journal of Theoretical Biology</i> , 2011, 268, 98-104.	0.8	19
25	6-Year Periodicity and Variable Synchronicity in a Mass-Flowering Plant. <i>PLoS ONE</i> , 2011, 6, e28140.	1.1	18
26	A geometrical approach explains Lake Ball (Marimo) formations in the green alga, <i>Aegagropila linnaei</i> . <i>Scientific Reports</i> , 2015, 4, 3761.	1.6	17
27	Mathematical equivalence of geometric mean fitness with probabilistic optimization under environmental uncertainty. <i>Ecological Modelling</i> , 2009, 220, 2611-2617.	1.2	16
28	PROBABILISTIC OPTIMIZATION OF BODY SIZE: A DISCREPANCY BETWEEN GENETIC AND PHENOTYPIC OPTIMA. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 375-378.	1.1	15
29	Evolution of periodicity in periodical cicadas. <i>Scientific Reports</i> , 2015, 5, 14094.	1.6	15
30	Speciation and evolutionary dynamics of asymmetric mating preference. <i>Researches on Population Ecology</i> , 1997, 39, 191-200.	0.9	13
31	Male soldiers are functional in the Japanese strain of a polyembryonic wasp. <i>Scientific Reports</i> , 2013, 3, 2312.	1.6	13
32	Dimorphic flowers modify the visitation order of pollinators from male to female flowers. <i>Scientific Reports</i> , 2020, 10, 9965.	1.6	13
33	Overwintering evergreen oaks reverse typical relationships between leaf traits in a species spectrum. <i>Royal Society Open Science</i> , 2016, 3, 160276.	1.1	12
34	Color polymorphism in an aphid is maintained by attending ants. <i>Science Advances</i> , 2016, 2, e1600606.	4.7	12
35	Environmental and genetic controls of soldier caste in a parasitic social wasp. <i>Scientific Reports</i> , 2012, 2, 729.	1.6	11
36	The fitness threshold model: Random environmental change alters adaptive landscapes. <i>Evolutionary Ecology</i> , 1998, 12, 615-626.	0.5	10

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37	A geographical model of high species diversity. <i>Population Ecology</i> , 2006, 48, 113-119.	0.7	10
38	Co-occurrence of ecologically equivalent cryptic species of spider wasps. <i>Royal Society Open Science</i> , 2016, 3, 160119.	1.1	10
39	Bet-hedging against male-caused reproductive failures may explain ubiquitous cuckoldry in female birds. <i>Journal of Theoretical Biology</i> , 2018, 437, 214-221.	0.8	10
40	Evolutionary origin of a periodical mass-flowering plant. <i>Ecology and Evolution</i> , 2019, 9, 4373-4381.	0.8	10
41	Dynamic decision-making in uncertain environments I. The principle of dynamic utility. <i>Journal of Ethology</i> , 2013, 31, 101-105.	0.4	9
42	Sex differences in the protection of host immune systems by a polyembryonic parasitoid. <i>Biology Letters</i> , 2013, 9, 20130839.	1.0	9
43	The promotion of cooperation by the poor in dynamic chicken games. <i>Scientific Reports</i> , 2017, 7, 43377.	1.6	9
44	Tree hazards compounded by successive climate extremes after masting in a small endemic tree, <i>Distylium lepidotum</i> , on subtropical islands in Japan. <i>Global Change Biology</i> , 2021, 27, 5094-5108.	4.2	9
45	The contribution of seed dispersers to tree species diversity in tropical rainforests. <i>Royal Society Open Science</i> , 2015, 2, 150330.	1.1	8
46	Nature of collective decision-making by simple yes/no decision units. <i>Scientific Reports</i> , 2017, 7, 14436.	1.6	8
47	Dynamic decision-making in uncertain environments II. Allais paradox in human behavior. <i>Journal of Ethology</i> , 2013, 31, 107-113.	0.4	7
48	Microhabitat locality allows multi-species coexistence in terrestrial plant communities. <i>Scientific Reports</i> , 2015, 5, 15376.	1.6	7
49	Four types of vibration behaviors in a mole cricket. <i>PLoS ONE</i> , 2018, 13, e0204628.	1.1	7
50	The unified rule of phyllotaxis explaining both spiral and non-spiral arrangements. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180850.	1.5	7
51	Eight-year periodical outbreaks of the train millipede. <i>Royal Society Open Science</i> , 2021, 8, 201399.	1.1	7
52	Interspecific Segregation in a Lattice Ecosystem with Intraspecific Competition. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2914-2915.	0.7	6
53	Bond and Site Percolation and Habitat Destruction in Model Ecosystems. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 3163-3166.	0.7	6
54	Evolution of gamete size in primitive taxa without mating types. <i>Population Ecology</i> , 2009, 51, 83-88.	0.7	6

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55	Potential impacts of flooding events and stream modification on an endangered endemic plant, <i>Schoenoplectus gemmifer</i> (Cyperaceae). <i>Ecological Research</i> , 2009, 24, 533-546.	0.7	6
56	Spontaneous flash communication of females in an Asian firefly. <i>Journal of Ethology</i> , 2012, 30, 355-360.	0.4	6
57	Foraging behavior in stochastic environments. <i>Journal of Ethology</i> , 2013, 31, 23-28.	0.4	6
58	Social penalty promotes cooperation in a cooperative society. <i>Scientific Reports</i> , 2015, 5, 12797.	1.6	6
59	Application of Power-Law Formalism Method to Equilibrium Computation of Vapor Growth Epitaxy.. <i>Journal of Chemical Engineering of Japan</i> , 1999, 32, 506-513.	0.3	5
60	Effects of gamete behavior and density on fertilization success in marine green algae: insights from three-dimensional numerical simulations. <i>Aquatic Ecology</i> , 2008, 42, 355-362.	0.7	5
61	Analytical solution of metapopulation dynamics in a stochastic environment. <i>Physical Review E</i> , 2012, 86, 045102.	0.8	5
62	Sexual complementarity between host humoral toxicity and soldier caste in a polyembryonic wasp. <i>Scientific Reports</i> , 2016, 6, 29336.	1.6	5
63	Ants improve the reproduction of inferior morphs to maintain a polymorphism in symbiont aphids. <i>Scientific Reports</i> , 2018, 8, 2313.	1.6	5
64	Gene Expression of Protein-Coding and Non-Coding RNAs Related to Polyembryogenesis in the Parasitic Wasp, <i>Copidosoma floridanum</i> . <i>PLoS ONE</i> , 2014, 9, e114372.	1.1	5
65	A lattice model of fashion propagation with correlation analysis. <i>International Journal of Systems Science</i> , 2008, 39, 947-957.	3.7	4
66	Evolutionary optimality in sex differences of longevity and athletic performances. <i>Scientific Reports</i> , 2015, 4, 5425.	1.6	4
67	Effects of pre-overwintering conditions on eupyrene and apyrene spermatogenesis after overwintering in <i>Polygona c-aureum</i> (Lepidoptera: Nymphalidae). <i>Journal of Insect Physiology</i> , 2017, 100, 1-8.	0.9	4
68	Density-dependent population model of effective release policy for Ayu fish. <i>Ecological Modelling</i> , 2018, 388, 80-87.	1.2	4
69	By-product runaway evolution by adaptive mate choice: A behavioural aspect of sexual selection. <i>Evolutionary Ecology</i> , 1992, 6, 261-269.	0.5	3
70	Analytical solution of a stochastic model of risk spreading with global coupling. <i>Physical Review E</i> , 2013, 88, 052809.	0.8	3
71	Effective use of high CO ₂ efflux at the soil surface in a tropical understory plant. <i>Scientific Reports</i> , 2015, 5, 8991.	1.6	3
72	What Is True Halving in the Payoff Matrix of Game Theory?. <i>PLoS ONE</i> , 2016, 11, e0159670.	1.1	3

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73	Territory holders and non-territory holders in Ayu fish coexist only in the population growth process due to hysteresis. <i>Scientific Reports</i> , 2017, 7, 16777.	1.6	3
74	The median-based resolution of the St. Petersburg paradox. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125838.	0.9	3
75	Morphology of the tentorium in the ant genus <i>Lasius</i> Fabricius (Hymenoptera: Formicidae). <i>Scientific Reports</i> , 2019, 9, 6722.	1.6	3
76	Mass killing by female soldier larvae is adaptive for the killed male larvae in a polyembryonic wasp. <i>Scientific Reports</i> , 2019, 9, 7357.	1.6	3
77	A single "weight-lifting" game covers all kinds of games. <i>Royal Society Open Science</i> , 2019, 6, 191602.	1.1	3
78	Systematics and convergent evolution in three Australian genera of Pepsinae spider wasps (Hymenoptera: Pompilidae). <i>Austral Entomology</i> , 2021, 60, 301-316.	0.8	3
79	Optimal hash arrangement of tentacles in jellyfish. <i>Scientific Reports</i> , 2016, 6, 27347.	1.6	3
80	Earthquake size: An example of a statistical distribution that lacks a well-defined mean. <i>American Journal of Physics</i> , 2022, 90, 501-505.	0.3	3
81	Infection Threshold for an Epidemic Model in Site and Bond Percolation Worlds. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 023002.	0.7	2
82	Effects of heat shock and ambient temperature on female soldier production in a polyembryonic parasitic wasp. <i>Physiological Entomology</i> , 2019, 44, 133-139.	0.6	2
83	Unrewarding experience with a novel environment modulates olfactory response in the host-searching behavior of parasitic wasps. <i>Arthropod-Plant Interactions</i> , 2020, 14, 433-440.	0.5	2
84	Integrated effects of thermal acclimation and challenge temperature on cellular immunity in the plusiine moth larvae <i>Chrysodeixis eriosoma</i> (Lepidoptera: Noctuidae). <i>Physiological Entomology</i> , 2021, 46, 52-59.	0.6	2
85	Exaggerated evolution of male armaments via male-male competition. <i>Ecology and Evolution</i> , 2021, 11, 6977-6992.	0.8	2
86	Disadvantages of Preferential Dispersals in Fluctuating Environments. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 034801.	0.7	1
87	Cricket mate selection as a spatial discounting phenomenon without learning. <i>Journal of Ethology</i> , 2018, 36, 229-233.	0.4	1
88	Long-term persistence of agricultural pest insects by risk-spreading dispersal. <i>Ecological Research</i> , 2018, 33, 1031-1037.	0.7	1
89	Bankruptcy is an inevitable fate of repeated investments with leverage. <i>Scientific Reports</i> , 2019, 9, 13745.	1.6	1
90	Two-step mechanism of spiral phyllotaxis. <i>Journal of Theoretical Biology</i> , 2021, 508, 110484.	0.8	1

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91	Improving environment drives dynamical change in social game structure. Royal Society Open Science, 2021, 8, 201166.	1.1	1
92	Special feature: applications of dynamical systems theory to population ecology. Population Ecology, 2006, 48, 93-94.	0.7	0
93	Population Uncertainty in Model Ecosystem: Analysis by Stochastic Differential Equation. Journal of the Physical Society of Japan, 2008, 77, 093801.	0.7	0
94	2SH1400 17 and 13 years, the secret of magicicada(2SH Prime Number and Life-New Paradigm for the 21st) Tj ETQg 0 0 0 rgBT /Overloc	0.0	0
95	Energetic requirements of the transition from solitary to group living. Ecological Complexity, 2020, 44, 100874.	1.4	0
96	Evolutionary loss of thermal acclimation accompanied by periodic monocarpic mass flowering in <i>Strobilanthes flexicaulis</i> . Scientific Reports, 2021, 11, 14273.	1.6	0
97	Practical Basis of the Geometric Mean Fitness and its Application to Risk-Spreading Behavior. Bulletin of Mathematical Biology, 2022, 84, 25.	0.9	0
98	Optimal strategies and cost-benefit analysis of the $\{\varvec{n}\}$ -player weightlifting game. Scientific Reports, 2022, 12, 8482.	1.6	0