

Jin Yoshimura

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

1,087
citations

18
h-index

28
g-index

99
ext. papers

1,305
ext. citations

3.7
avg, IF

4.34
L-index

#	Paper	IF	Citations
97	Practical Basis of the Geometric Mean Fitness and its Application to Risk-Spreading Behavior.. <i>Bulletin of Mathematical Biology</i> , 2022 , 84, 25	2.1	
96	Optimal strategies and cost-benefit analysis of the [Formula: see text]-player weightlifting game.. <i>Scientific Reports</i> , 2022 , 12, 8482	4.9	
95	Systematics and convergent evolution in three Australian genera of Pepsinae spider wasps (Hymenoptera: Pompilidae). <i>Austral Entomology</i> , 2021 , 60, 301-316	1.1	
94	Improving environment drives dynamical change in social game structure. <i>Royal Society Open Science</i> , 2021 , 8, 201166	3.3	1
93	Exaggerated evolution of male armaments via male-male competition. <i>Ecology and Evolution</i> , 2021 , 11, 6977-6992	2.8	0
92	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	11.4	2
91	Evolutionary loss of thermal acclimation accompanied by periodic monocarpic mass flowering in <i>Strobilanthes flexicaulis</i> . <i>Scientific Reports</i> , 2021 , 11, 14273	4.9	
90	Two-step mechanism of spiral phyllotaxis. <i>Journal of Theoretical Biology</i> , 2021 , 508, 110484	2.3	
89	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	1.9	1
88	Eight-year periodical outbreaks of the train millipede. <i>Royal Society Open Science</i> , 2021 , 8, 201399	3.3	2
87	Energetic requirements of the transition from solitary to group living. <i>Ecological Complexity</i> , 2020 , 44, 100874	2.6	
86	Dimorphic flowers modify the visitation order of pollinators from male to female flowers. <i>Scientific Reports</i> , 2020 , 10, 9965	4.9	1
85	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	2.2	1
84	Morphology of the tentorium in the ant genus <i>Lasius</i> Fabricius (Hymenoptera: Formicidae). <i>Scientific Reports</i> , 2019 , 9, 6722	4.9	3
83	Mass killing by female soldier larvae is adaptive for the killed male larvae in a polyembryonic wasp. <i>Scientific Reports</i> , 2019 , 9, 7357	4.9	3
82	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	8.3	34
81	The unified rule of phyllotaxis explaining both spiral and non-spiral arrangements. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180850	4.1	4

80	Evolutionary origin of a periodical mass-flowering plant. <i>Ecology and Evolution</i> , 2019 , 9, 4373-4381	2.8	5
79	Grazing enhances species diversity in grassland communities. <i>Scientific Reports</i> , 2019 , 9, 11201	4.9	13
78	The median-based resolution of the St. Petersburg paradox. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 125838	2.3	1
77	Bankruptcy is an inevitable fate of repeated investments with leverage. <i>Scientific Reports</i> , 2019 , 9, 13745	4.9	1
76	Effects of heat shock and ambient temperature on female soldier production in a polyembryonic parasitic wasp. <i>Physiological Entomology</i> , 2019 , 44, 133-139	1.9	2
75	A single weight-lifting game covers all kinds of games. <i>Royal Society Open Science</i> , 2019 , 6, 191602	3.3	2
74	Initial hydraulic failure followed by late-stage carbon starvation leads to drought-induced death in the tree. <i>Communications Biology</i> , 2019 , 2, 8	6.7	25
73	Ants improve the reproduction of inferior morphs to maintain a polymorphism in symbiont aphids. <i>Scientific Reports</i> , 2018 , 8, 2313	4.9	4
72	Multi-species coexistence in Lotka-Volterra competitive systems with crowding effects. <i>Scientific Reports</i> , 2018 , 8, 1198	4.9	18
71	Asymptotic stability of a modified Lotka-Volterra model with small immigrations. <i>Scientific Reports</i> , 2018 , 8, 7029	4.9	21
70	Bet-hedging against male-caused reproductive failures may explain ubiquitous cuckoldry in female birds. <i>Journal of Theoretical Biology</i> , 2018 , 437, 214-221	2.3	6
69	Four types of vibration behaviors in a mole cricket. <i>PLoS ONE</i> , 2018 , 13, e0204628	3.7	5
68	Cricket mate selection as a spatial discounting phenomenon without learning. <i>Journal of Ethology</i> , 2018 , 36, 229-233	1.1	1
67	Density-dependent population model of effective release policy for Ayu fish. <i>Ecological Modelling</i> , 2018 , 388, 80-87	3	3
66	Long-term persistence of agricultural pest insects by risk-spreading dispersal. <i>Ecological Research</i> , 2018 , 33, 1031-1037	1.9	0
65	Effects of pre-overwintering conditions on eupyrene and apyrene spermatogenesis after overwintering in <i>Polytonia c-aureum</i> (Lepidoptera: Nymphalidae). <i>Journal of Insect Physiology</i> , 2017 , 100, 1-8	2.4	4
64	Nature of collective decision-making by simple yes/no decision units. <i>Scientific Reports</i> , 2017 , 7, 14436	4.9	5
63	The promotion of cooperation by the poor in dynamic chicken games. <i>Scientific Reports</i> , 2017 , 7, 43377	4.9	6

62	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	4.9	3
61	Sexual complementarity between host humoral toxicity and soldier caste in a polyembryonic wasp. <i>Scientific Reports</i> , 2016 , 6, 29336	4.9	5
60	Color polymorphism in an aphid is maintained by attending ants. <i>Science Advances</i> , 2016 , 2, e1600606	14.3	11
59	The dynamics of carbon stored in xylem sapwood to drought-induced hydraulic stress in mature trees. <i>Scientific Reports</i> , 2016 , 6, 24513	4.9	29
58	Optimal hash arrangement of tentacles in jellyfish. <i>Scientific Reports</i> , 2016 , 6, 27347	4.9	2
57	Co-occurrence of ecologically equivalent cryptic species of spider wasps. <i>Royal Society Open Science</i> , 2016 , 3, 160119	3.3	6
56	What Is True Halving in the Payoff Matrix of Game Theory?. <i>PLoS ONE</i> , 2016 , 11, e0159670	3.7	3
55	Overwintering evergreen oaks reverse typical relationships between leaf traits in a species spectrum. <i>Royal Society Open Science</i> , 2016 , 3, 160276	3.3	9
54	Lazy workers are necessary for long-term sustainability in insect societies. <i>Scientific Reports</i> , 2016 , 6, 20846	4.9	34
53	Host-parasite Red Queen dynamics with phase-locked rare genotypes. <i>Science Advances</i> , 2016 , 2, e1501543	14.3	23
52	Disadvantages of Preferential Dispersals in Fluctuating Environments. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 034801	1.5	1
51	Social penalty promotes cooperation in a cooperative society. <i>Scientific Reports</i> , 2015 , 5, 12797	4.9	5
50	Evolution of periodicity in periodical cicadas. <i>Scientific Reports</i> , 2015 , 5, 14094	4.9	12
49	Red Queen dynamics in multi-host and multi-parasite interaction system. <i>Scientific Reports</i> , 2015 , 5, 100049	4.9	34
48	Anthropogenic effects on a tropical forest according to the distance from human settlements. <i>Scientific Reports</i> , 2015 , 5, 14689	4.9	23
47	Effective use of high CO ₂ flux at the soil surface in a tropical understory plant. <i>Scientific Reports</i> , 2015 , 5, 8991	4.9	3
46	Microhabitat locality allows multi-species coexistence in terrestrial plant communities. <i>Scientific Reports</i> , 2015 , 5, 15376	4.9	7
45	The contribution of seed dispersers to tree species diversity in tropical rainforests. <i>Royal Society Open Science</i> , 2015 , 2, 150330	3.3	7

44	Evolutionary optimality in sex differences of longevity and athletic performances. <i>Scientific Reports</i> , 2014 , 4, 5425	4.9	3
43	Fine-tuned bee-flower coevolutionary state hidden within multiple pollination interactions. <i>Scientific Reports</i> , 2014 , 4, 3988	4.9	19
42	A geometrical approach explains Lake Ball (Marimo) formations in the green alga, <i>Aegagropila linnaei</i> . <i>Scientific Reports</i> , 2014 , 4, 3761	4.9	11
41	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	3.7	4
40	Foraging behavior in stochastic environments. <i>Journal of Ethology</i> , 2013 , 31, 23-28	1.1	5
39	Dynamic decision-making in uncertain environments I. The principle of dynamic utility. <i>Journal of Ethology</i> , 2013 , 31, 101-105	1.1	9
38	Dynamic decision-making in uncertain environments II. Allais paradox in human behavior. <i>Journal of Ethology</i> , 2013 , 31, 107-113	1.1	7
37	The paradox of enrichment in phytoplankton by induced competitive interactions. <i>Scientific Reports</i> , 2013 , 3, 2835	4.9	16
36	Analytical solution of a stochastic model of risk spreading with global coupling. <i>Physical Review E</i> , 2013 , 88, 052809	2.4	3
35	Sex differences in the protection of host immune systems by a polyembryonic parasitoid. <i>Biology Letters</i> , 2013 , 9, 20130839	3.6	8
34	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, 6919-24	11.5	44
33	Male soldiers are functional in the Japanese strain of a polyembryonic wasp. <i>Scientific Reports</i> , 2013 , 3, 2312	4.9	12
32	Spontaneous flash communication of females in an Asian firefly. <i>Journal of Ethology</i> , 2012 , 30, 355-360	1.1	3
31	Environmental and genetic controls of soldier caste in a parasitic social wasp. <i>Scientific Reports</i> , 2012 , 2, 729	4.9	11
30	Analytical solution of metapopulation dynamics in a stochastic environment. <i>Physical Review E</i> , 2012 , 86, 045102	2.4	4
29	6-year periodicity and variable synchronicity in a mass-flowering plant. <i>PLoS ONE</i> , 2011 , 6, e28140	3.7	11
28	A simple population theory for mutualism by the use of lattice gas model. <i>Ecological Modelling</i> , 2011 , 222, 2042-2048	3	23
27	Historical effect in the territoriality of ayu fish. <i>Journal of Theoretical Biology</i> , 2011 , 268, 98-104	2.3	18

26	Infection Threshold for an Epidemic Model in Site and Bond Percolation Worlds. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 023002	1.5	2
25	2SH1400 17 and 13 years, the secret of magicicada(2SH Prime Number and Life-New Paradigm for the 21st Century-,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S17	0	
24	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, 8975-9	11.5	22
23	Mathematical equivalence of geometric mean fitness with probabilistic optimization under environmental uncertainty. <i>Ecological Modelling</i> , 2009 , 220, 2611-2617	3	14
22	Evolution of gamete size in primitive taxa without mating types. <i>Population Ecology</i> , 2009 , 51, 83-88	2.1	4
21	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	1.9	5
20	Selection for prime-number intervals in a numerical model of periodical cicada evolution. <i>Evolution; International Journal of Organic Evolution</i> , 2009 , 63, 288-94	3.8	18
19	A lattice model of fashion propagation with correlation analysis. <i>International Journal of Systems Science</i> , 2008 , 39, 947-957	2.3	4
18	Population Uncertainty in Model Ecosystem: Analysis by Stochastic Differential Equation. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 093801	1.5	
17	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	1.9	5
16	Special feature: applications of dynamical systems theory to population ecology. <i>Population Ecology</i> , 2006 , 48, 93-94	2.1	
15	Spatial coexistence of phytoplankton species in ecological timescale. <i>Population Ecology</i> , 2006 , 48, 107-112	1.2	23
14	A geographical model of high species diversity. <i>Population Ecology</i> , 2006 , 48, 113-119	2.1	9
13	Bond and Site Percolation and Habitat Destruction in Model Ecosystems. <i>Journal of the Physical Society of Japan</i> , 2005 , 74, 3163-3166	1.5	5
12	Interspecific Segregation in a Lattice Ecosystem with Intraspecific Competition. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 2914-2915	1.5	6
11	Spatial heterogeneity in a grassland community: Use of power law. <i>Ecological Research</i> , 2001 , 16, 487-495.	0.9	23
10	Measures of spatial heterogeneity for species occurrence or disease incidence with finite-counts. <i>Ecological Research</i> , 2000 , 15, 13-20	1.9	15
9	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	3.1	21

8	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	0.8	5
7	The fitness threshold model: Random environmental change alters adaptive landscapes. <i>Evolutionary Ecology</i> , 1998 , 12, 615-626	1.8	10
6	The Evolutionary Origins of Periodical Cicadas During Ice Ages. <i>American Naturalist</i> , 1997 , 149, 112-124	3.7	80
5	Speciation and evolutionary dynamics of asymmetric mating preference. <i>Researches on Population Ecology</i> , 1997 , 39, 191-200		12
4	Evolution and population dynamics in stochastic environments. <i>Researches on Population Ecology</i> , 1996 , 38, 165-182		50
3	PROBABILISTIC OPTIMIZATION OF BODY SIZE: A DISCREPANCY BETWEEN GENETIC AND PHENOTYPIC OPTIMA. <i>Evolution; International Journal of Organic Evolution</i> , 1995 , 49, 375-378	3.8	13
2	By-product runaway evolution by adaptive mate choice: A behavioural aspect of sexual selection. <i>Evolutionary Ecology</i> , 1992 , 6, 261-269	1.8	3
1	Individual adaptations in stochastic environments. <i>Evolutionary Ecology</i> , 1991 , 5, 173-192	1.8	135