

# Jin Yoshimura

## List of Publications by Citations

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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	Individual adaptations in stochastic environments. <i>Evolutionary Ecology</i> , <b>1991</b> , 5, 173-192	1.8	135
96	The Evolutionary Origins of Periodical Cicadas During Ice Ages. <i>American Naturalist</i> , <b>1997</b> , 149, 112-124	3.7	80
95	Evolution and population dynamics in stochastic environments. <i>Researches on Population Ecology</i> , <b>1996</b> , 38, 165-182		50
94	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> , <b>2013</b> , 110, 6919-24	11.5	44
93	Mitochondrial Genomics Reveals Shared Phylogeographic Patterns and Demographic History among Three Periodical Cicada Species Groups. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1187-1200	8.3	34
92	Red Queen dynamics in multi-host and multi-parasite interaction system. <i>Scientific Reports</i> , <b>2015</b> , 5, 100049	4.9	34
91	Lazy workers are necessary for long-term sustainability in insect societies. <i>Scientific Reports</i> , <b>2016</b> , 6, 20846	4.9	34
90	The dynamics of carbon stored in xylem sapwood to drought-induced hydraulic stress in mature trees. <i>Scientific Reports</i> , <b>2016</b> , 6, 24513	4.9	29
89	Initial hydraulic failure followed by late-stage carbon starvation leads to drought-induced death in the tree. <i>Communications Biology</i> , <b>2019</b> , 2, 8	6.7	25
88	Anthropogenic effects on a tropical forest according to the distance from human settlements. <i>Scientific Reports</i> , <b>2015</b> , 5, 14689	4.9	23
87	A simple population theory for mutualism by the use of lattice gas model. <i>Ecological Modelling</i> , <b>2011</b> , 222, 2042-2048	3	23
86	Spatial coexistence of phytoplankton species in ecological timescale. <i>Population Ecology</i> , <b>2006</b> , 48, 107-112	1.2	23
85	Spatial heterogeneity in a grassland community: Use of power law. <i>Ecological Research</i> , <b>2001</b> , 16, 487-495	0.9	23
84	Host-parasite Red Queen dynamics with phase-locked rare genotypes. <i>Science Advances</i> , <b>2016</b> , 2, e150154	15.43	23
83	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> , <b>2009</b> , 106, 8975-9	11.5	22
82	Asymptotic stability of a modified Lotka-Volterra model with small immigrations. <i>Scientific Reports</i> , <b>2018</b> , 8, 7029	4.9	21
81	A measure for spatial heterogeneity of a grassland vegetation based on the beta-binomial distribution. <i>Journal of Vegetation Science</i> , <b>2000</b> , 11, 627-632	3.1	21

80	Fine-tuned bee-flower coevolutionary state hidden within multiple pollination interactions. <i>Scientific Reports</i> , <b>2014</b> , 4, 3988	4.9	19
79	Multi-species coexistence in Lotka-Volterra competitive systems with crowding effects. <i>Scientific Reports</i> , <b>2018</b> , 8, 1198	4.9	18
78	Selection for prime-number intervals in a numerical model of periodical cicada evolution. <i>Evolution; International Journal of Organic Evolution</i> , <b>2009</b> , 63, 288-94	3.8	18
77	Historical effect in the territoriality of ayu fish. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 268, 98-104	2.3	18
76	The paradox of enrichment in phytoplankton by induced competitive interactions. <i>Scientific Reports</i> , <b>2013</b> , 3, 2835	4.9	16
75	Measures of spatial heterogeneity for species occurrence or disease incidence with finite-counts. <i>Ecological Research</i> , <b>2000</b> , 15, 13-20	1.9	15
74	Mathematical equivalence of geometric mean fitness with probabilistic optimization under environmental uncertainty. <i>Ecological Modelling</i> , <b>2009</b> , 220, 2611-2617	3	14
73	Grazing enhances species diversity in grassland communities. <i>Scientific Reports</i> , <b>2019</b> , 9, 11201	4.9	13
72	PROBABILISTIC OPTIMIZATION OF BODY SIZE: A DISCREPANCY BETWEEN GENETIC AND PHENOTYPIC OPTIMA. <i>Evolution; International Journal of Organic Evolution</i> , <b>1995</b> , 49, 375-378	3.8	13
71	Evolution of periodicity in periodical cicadas. <i>Scientific Reports</i> , <b>2015</b> , 5, 14094	4.9	12
70	Male soldiers are functional in the Japanese strain of a polyembryonic wasp. <i>Scientific Reports</i> , <b>2013</b> , 3, 2312	4.9	12
69	Speciation and evolutionary dynamics of asymmetric mating preference. <i>Researches on Population Ecology</i> , <b>1997</b> , 39, 191-200		12
68	Color polymorphism in an aphid is maintained by attending ants. <i>Science Advances</i> , <b>2016</b> , 2, e1600606	14.3	11
67	A geometrical approach explains Lake Ball (Marimo) formations in the green alga, <i>Aegagropila linnaei</i> . <i>Scientific Reports</i> , <b>2014</b> , 4, 3761	4.9	11
66	Environmental and genetic controls of soldier caste in a parasitic social wasp. <i>Scientific Reports</i> , <b>2012</b> , 2, 729	4.9	11
65	6-year periodicity and variable synchronicity in a mass-flowering plant. <i>PLoS ONE</i> , <b>2011</b> , 6, e28140	3.7	11
64	The fitness threshold model: Random environmental change alters adaptive landscapes. <i>Evolutionary Ecology</i> , <b>1998</b> , 12, 615-626	1.8	10
63	Dynamic decision-making in uncertain environments I. The principle of dynamic utility. <i>Journal of Ethology</i> , <b>2013</b> , 31, 101-105	1.1	9

62	A geographical model of high species diversity. <i>Population Ecology</i> , <b>2006</b> , 48, 113-119	2.1	9
61	Overwintering evergreen oaks reverse typical relationships between leaf traits in a species spectrum. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160276	3.3	9
60	Sex differences in the protection of host immune systems by a polyembryonic parasitoid. <i>Biology Letters</i> , <b>2013</b> , 9, 20130839	3.6	8
59	Microhabitat locality allows multi-species coexistence in terrestrial plant communities. <i>Scientific Reports</i> , <b>2015</b> , 5, 15376	4.9	7
58	The contribution of seed dispersers to tree species diversity in tropical rainforests. <i>Royal Society Open Science</i> , <b>2015</b> , 2, 150330	3.3	7
57	Dynamic decision-making in uncertain environments II. Allais paradox in human behavior. <i>Journal of Ethology</i> , <b>2013</b> , 31, 107-113	1.1	7
56	The promotion of cooperation by the poor in dynamic chicken games. <i>Scientific Reports</i> , <b>2017</b> , 7, 43377	4.9	6
55	Interspecific Segregation in a Lattice Ecosystem with Intraspecific Competition. <i>Journal of the Physical Society of Japan</i> , <b>2004</b> , 73, 2914-2915	1.5	6
54	Co-occurrence of ecologically equivalent cryptic species of spider wasps. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 160119	3.3	6
53	Bet-hedging against male-caused reproductive failures may explain ubiquitous cuckoldry in female birds. <i>Journal of Theoretical Biology</i> , <b>2018</b> , 437, 214-221	2.3	6
52	Nature of collective decision-making by simple yes/no decision units. <i>Scientific Reports</i> , <b>2017</b> , 7, 14436	4.9	5
51	Evolutionary origin of a periodical mass-flowering plant. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 4373-4381	2.8	5
50	Sexual complementarity between host humoral toxicity and soldier caste in a polyembryonic wasp. <i>Scientific Reports</i> , <b>2016</b> , 6, 29336	4.9	5
49	Foraging behavior in stochastic environments. <i>Journal of Ethology</i> , <b>2013</b> , 31, 23-28	1.1	5
48	Social penalty promotes cooperation in a cooperative society. <i>Scientific Reports</i> , <b>2015</b> , 5, 12797	4.9	5
47	Potential impacts of flooding events and stream modification on an endangered endemic plant, <i>Schoenoplectus gemmifer</i> (Cyperaceae). <i>Ecological Research</i> , <b>2009</b> , 24, 533-546	1.9	5
46	Effects of gamete behavior and density on fertilization success in marine green algae: insights from three-dimensional numerical simulations. <i>Aquatic Ecology</i> , <b>2008</b> , 42, 355-362	1.9	5
45	Bond and Site Percolation and Habitat Destruction in Model Ecosystems. <i>Journal of the Physical Society of Japan</i> , <b>2005</b> , 74, 3163-3166	1.5	5

44	Application of Power-Law Formalism Method to Equilibrium Computation of Vapor Growth Epitaxy.. <i>Journal of Chemical Engineering of Japan</i> , <b>1999</b> , 32, 506-513	0.8	5
43	Four types of vibration behaviors in a mole cricket. <i>PLoS ONE</i> , <b>2018</b> , 13, e0204628	3.7	5
42	Effects of pre-overwintering conditions on eupyrene and apyrene spermatogenesis after overwintering in <i>Polygonia c-aureum</i> (Lepidoptera: Nymphalidae). <i>Journal of Insect Physiology</i> , <b>2017</b> , 100, 1-8	2.4	4
41	The unified rule of phyllotaxis explaining both spiral and non-spiral arrangements. <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20180850	4.1	4
40	Ants improve the reproduction of inferior morphs to maintain a polymorphism in symbiont aphids. <i>Scientific Reports</i> , <b>2018</b> , 8, 2313	4.9	4
39	Evolution of gamete size in primitive taxa without mating types. <i>Population Ecology</i> , <b>2009</b> , 51, 83-88	2.1	4
38	Analytical solution of metapopulation dynamics in a stochastic environment. <i>Physical Review E</i> , <b>2012</b> , 86, 045102	2.4	4
37	A lattice model of fashion propagation with correlation analysis. <i>International Journal of Systems Science</i> , <b>2008</b> , 39, 947-957	2.3	4
36	Gene expression of protein-coding and non-coding RNAs related to polyembryogenesis in the parasitic wasp, <i>Copidosoma floridanum</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e114372	3.7	4
35	Morphology of the tentorium in the ant genus <i>Lasius Fabricius</i> (Hymenoptera: Formicidae). <i>Scientific Reports</i> , <b>2019</b> , 9, 6722	4.9	3
34	Mass killing by female soldier larvae is adaptive for the killed male larvae in a polyembryonic wasp. <i>Scientific Reports</i> , <b>2019</b> , 9, 7357	4.9	3
33	Territory holders and non-territory holders in Ayu fish coexist only in the population growth process due to hysteresis. <i>Scientific Reports</i> , <b>2017</b> , 7, 16777	4.9	3
32	Evolutionary optimality in sex differences of longevity and athletic performances. <i>Scientific Reports</i> , <b>2014</b> , 4, 5425	4.9	3
31	Effective use of high CO <sub>2</sub> flux at the soil surface in a tropical understory plant. <i>Scientific Reports</i> , <b>2015</b> , 5, 8991	4.9	3
30	Spontaneous flash communication of females in an Asian firefly. <i>Journal of Ethology</i> , <b>2012</b> , 30, 355-360	1.1	3
29	Analytical solution of a stochastic model of risk spreading with global coupling. <i>Physical Review E</i> , <b>2013</b> , 88, 052809	2.4	3
28	By-product runaway evolution by adaptive mate choice: A behavioural aspect of sexual selection. <i>Evolutionary Ecology</i> , <b>1992</b> , 6, 261-269	1.8	3
27	What Is True Halving in the Payoff Matrix of Game Theory?. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159670	3.7	3

26	Density-dependent population model of effective release policy for Ayu fish. <i>Ecological Modelling</i> , <b>2018</b> , 388, 80-87	3	3
25	Infection Threshold for an Epidemic Model in Site and Bond Percolation Worlds. <i>Journal of the Physical Society of Japan</i> , <b>2010</b> , 79, 023002	1.5	2
24	Optimal hash arrangement of tentacles in jellyfish. <i>Scientific Reports</i> , <b>2016</b> , 6, 27347	4.9	2
23	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> , <b>2021</b> , 27, 5094-5108	11.4	2
22	Effects of heat shock and ambient temperature on female soldier production in a polyembryonic parasitic wasp. <i>Physiological Entomology</i> , <b>2019</b> , 44, 133-139	1.9	2
21	A single Tweight-liftingTgame covers all kinds of games. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 191602	3.3	2
20	Eight-year periodical outbreaks of the train millipede. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 201399	3.3	2
19	Dimorphic flowers modify the visitation order of pollinators from male to female flowers. <i>Scientific Reports</i> , <b>2020</b> , 10, 9965	4.9	1
18	Unrewarding experience with a novel environment modulates olfactory response in the host-searching behavior of parasitic wasps. <i>Arthropod-Plant Interactions</i> , <b>2020</b> , 14, 433-440	2.2	1
17	The median-based resolution of the St. Petersburg paradox. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 125838	2.3	1
16	Bankruptcy is an inevitable fate of repeated investments with leverage. <i>Scientific Reports</i> , <b>2019</b> , 9, 13745	4.9	1
15	Disadvantages of Preferential Dispersals in Fluctuating Environments. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 034801	1.5	1
14	Improving environment drives dynamical change in social game structure. <i>Royal Society Open Science</i> , <b>2021</b> , 8, 201166	3.3	1
13	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> , <b>2021</b> , 46, 52-59	1.9	1
12	Cricket mate selection as a spatial discounting phenomenon without learning. <i>Journal of Ethology</i> , <b>2018</b> , 36, 229-233	1.1	1
11	Exaggerated evolution of male armaments via male-male competition. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 6977-6992	2.8	0
10	Long-term persistence of agricultural pest insects by risk-spreading dispersal. <i>Ecological Research</i> , <b>2018</b> , 33, 1031-1037	1.9	0
9	Energetic requirements of the transition from solitary to group living. <i>Ecological Complexity</i> , <b>2020</b> , 44, 100874	2.6	

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| 8 | 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> , <b>2010</b> , 50, S17 | 0   |
| 7 | Population Uncertainty in Model Ecosystem: Analysis by Stochastic Differential Equation. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 093801  | 1.5 |
| 6 | Special feature: applications of dynamical systems theory to population ecology. <i>Population Ecology</i> , <b>2006</b> , 48, 93-94   | 2.1 |
| 5 | Practical Basis of the Geometric Mean Fitness and its Application to Risk-Spreading Behavior.. <i>Bulletin of Mathematical Biology</i> , <b>2022</b> , 84, 25  | 2.1 |
| 4 | Systematics and convergent evolution in three Australian genera of Pepsinae spider wasps (Hymenoptera: Pompilidae). <i>Austral Entomology</i> , <b>2021</b> , 60, 301-316  | 1.1 |
| 3 | Evolutionary loss of thermal acclimation accompanied by periodic monocarpic mass flowering in <i>Strobilanthes flexicaulis</i> . <i>Scientific Reports</i> , <b>2021</b> , 11, 14273   | 4.9 |
| 2 | Two-step mechanism of spiral phyllotaxis. <i>Journal of Theoretical Biology</i> , <b>2021</b> , 508, 110484  | 2.3 |
| 1 | Optimal strategies and cost-benefit analysis of the [Formula: see text]-player weightlifting game.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8482   | 4.9 |