Jonathan M Jeschke

List of Publications by Year
in descending order

160 papers	15,102 citations	34105 52 h-index	24258 110 g-index
177 all docs	177 docs citations	177 times ranked	12697 citing authors

#	Article	IF	Citations
1	Predation. , 2022, , 207-221.		3
2	Biological Invasions: Impact and Management. , 2022, , 368-381.		1
3	An assessment of the environmental and socio-economic impacts of alien rabbits and hares. Ambio, 2022, 51, 1314-1329.	5.5	10
4	A global agenda for advancing freshwater biodiversity research. Ecology Letters, 2022, 25, 255-263.	6.4	95
5	Biodiversity maintains soil multifunctionality and soil organic carbon in novel urban ecosystems. Journal of Ecology, 2022, 110, 916-934.	4.0	13
6	Correction: Four priority areas to advance invasion science in the face of rapid environmental change. Environmental Reviews, 2022, 30, 174-174.	4.5	1
7	Societal extinction of species. Trends in Ecology and Evolution, 2022, 37, 411-419.	8.7	26
8	How media presence triggers participation in citizen scienceâ€"The case of the mosquito monitoring project â€˜MÃ¼ckenatlasâ€˜. PLoS ONE, 2022, 17, e0262850.	2.5	6
9	Biological invasions reveal how niche change affects the transferability of species distribution models. Ecology, 2022, 103, e3719.	3.2	23
10	Grassland allergenicity increases with urbanisation and plant invasions. Ambio, 2022, 51, 2261-2277.	5.5	11
11	Urban biotic homogenization: Approaches and knowledge gaps. Ecological Applications, 2022, 32, .	3.8	6
12	Urban affinity and its associated traits: A global analysis of bats. Global Change Biology, 2022, 28, 5667-5682.	9.5	10
13	Citizen science versus professional data collection: Comparison of approaches to mosquito monitoring in Germany. Journal of Applied Ecology, 2021, 58, 214-223.	4.0	40
14	Biological Invasions: Case Studies. , 2021, , .		0
15	Biological Invasions: Introduction, Establishment and Spread. , 2021, , .		2
16	What factors increase the vulnerability of native birds to the impacts of alien birds?. Ecography, 2021, 44, 727-739.	4.5	15
17	Mechanistic reconciliation of community and invasion ecology. Ecosphere, 2021, 12, e03359.	2.2	21
18	Invasion Culturomics and iEcology. Conservation Biology, 2021, 35, 447-451.	4.7	24

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19	Buzzing Homes: Using Citizen Science Data to Explore the Effects of Urbanization on Indoor Mosquito Communities. Insects, 2021, 12, 374.	2.2	8
20	Distance to native climatic niche margins explains establishment success of alien mammals. Nature Communications, 2021, 12, 2353.	12.8	25
21	Key drivers structuring rotifer communities in ponds: insights into an agricultural landscape. Journal of Plankton Research, 2021, 43, 396-412.	1.8	13
22	Viewing Emerging Human Infectious Epidemics through the Lens of Invasion Biology. BioScience, 2021, 71, 722-740.	4.9	24
23	Alternative futures for global biological invasions. Sustainability Science, 2021, 16, 1637-1650.	4.9	25
24	Four priority areas to advance invasion science in the face of rapid environmental change. Environmental Reviews, 2021, 29, 119-141.	4.5	98
25	Twentyâ€five essential research questions to inform the protection and restoration of freshwater biodiversity. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 2632-2653.	2.0	49
26	Drivers of spatio-temporal variation in mosquito submissions to the citizen science project â€˜MÃ¼ckenatlasâ€™. Scientific Reports, 2021, 11, 1356.	3.3	15
27	The Hierarchy-of-Hypotheses Approach: A Synthesis Method for Enhancing Theory Development in Ecology and Evolution. BioScience, 2021, 71, 337-349.	4.9	16
28	Projecting the continental accumulation of alien species through to 2050. Global Change Biology, 2021, 27, 970-982.	9.5	327
29	Reply to Stroud: Invasive amphibians and reptiles from islands indeed show higher niche expansion than mainland species. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	3
30	Machine learning with the hierarchyâ€ofâ€hypotheses (HoH) approach discovers novel pattern in studies on biological invasions. Research Synthesis Methods, 2020, 11, 66-73.	8.7	9
31	Can data from native mosquitoes support determining invasive species habitats? Modelling the climatic niche of Aedes japonicus japonicus (Diptera, Culicidae) in Germany. Parasitology Research, 2020, 119, 31-42.	1.6	9
32	Need for routine tracking of biological invasions. Conservation Biology, 2020, 34, 1311-1314.	4.7	36
33	Drivers of future alien species impacts: An expertâ€based assessment. Global Change Biology, 2020, 26, 4880-4893.	9.5	145
34	Trophic ecology of invasive marbled and spiny-cheek crayfish populations. Biological Invasions, 2020, 22, 3339-3356.	2.4	15
35	How biological invasions affect animal behaviour: A global, crossâ€taxonomic analysis. Journal of Animal Ecology, 2020, 89, 2531-2541.	2.8	19
36	Most invasive species largely conserve their climatic niche. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23643-23651.	7.1	173

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37	Species distribution models have limited spatial transferability for invasive species. Ecology Letters, 2020, 23, 1682-1692.	6.4	78
38	Tracking Batrachochytrium dendrobatidis Infection Across the Globe. EcoHealth, 2020, 17, 270-279.	2.0	14
39	A multidimensional framework for measuring biotic novelty: How novel is a community?. Global Change Biology, 2020, 26, 4401-4417.	9.5	20
40	Clear Language for Ecosystem Management in the Anthropocene: A Reply to Bridgewater and Hemming. BioScience, 2020, 70, 374-376.	4.9	2
41	A conceptual map of invasion biology: Integrating hypotheses into a consensus network. Global Ecology and Biogeography, 2020, 29, 978-991.	5.8	150
42	A proposed unified framework to describe the management of biological invasions. Biological Invasions, 2020, 22, 2633-2645.	2.4	80
43	Scientists' warning on invasive alien species. Biological Reviews, 2020, 95, 1511-1534.	10.4	928
44	Make Open Access Publishing Fair and Transparent!. BioScience, 2020, 70, 201-204.	4.9	3
45	Towards a mechanistic understanding of individualâ€level functional responses: Invasive crayfish as model organisms. Freshwater Biology, 2020, 65, 657-673.	2.4	7
46	Distinct Biogeographic Phenomena Require a Specific Terminology: A Reply to Wilson and Sagoff. BioScience, 2020, 70, 112-114.	4.9	5
47	The role of species charisma in biological invasions. Frontiers in Ecology and the Environment, 2020, 18, 345-353.	4.0	81
48	Towards a Core Ontology for Hierarchies of Hypotheses in Invasion Biology. Lecture Notes in Computer Science, 2020, , 3-8.	1.3	3
49	Expanding conservation culturomics and iEcology from terrestrial to aquatic realms. PLoS Biology, 2020, 18, e3000935.	5.6	41
50	Towards an Integrative, Eco-Evolutionary Understanding of Ecological Novelty: Studying and Communicating Interlinked Effects of Global Change. BioScience, 2019, 69, 888-899.	4.9	55
51	A Conceptual Framework for Range-Expanding Species that Track Human-Induced Environmental Change. BioScience, 2019, 69, 908-919.	4.9	113
52	Longâ€term population dynamics of dreissenid mussels (<i>Dreissena polymorpha</i> and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	2.2	51
53	Using Network Theory to Understand and Predict Biological Invasions. Trends in Ecology and Evolution, 2019, 34, 831-843.	8.7	63
54	What makes the Asian bush mosquito Aedes japonicus japonicus feel comfortable in Germany? A fuzzy modelling approach. Parasites and Vectors, 2019, 12, 106.	2.5	22

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55	Do cancer stem cells exist? A pilot study combining a systematic review with the hierarchy-of-hypotheses approach. PLoS ONE, 2019, 14, e0225898.	2.5	11
56	Crypticity in Biological Invasions. Trends in Ecology and Evolution, 2019, 34, 291-302.	8.7	75
57	r-Strategists/K-Strategists. , 2019, , 193-201.		1
58	Knowledge in the dark: scientific challenges and ways forward. Facets, 2019, 4, 423-441.	2.4	34
59	Drawing a map of invasion biology based on a network of hypotheses. Ecosphere, 2018, 9, e02146.	2.2	49
60	Global rise in emerging alien species results from increased accessibility of new source pools. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2264-E2273.	7.1	416
61	The island rule: An assessment of biases and research trends. Journal of Biogeography, 2018, 45, 289-303.	3.0	55
62	Structuring evidence for invasional meltdown: broad support but with biases and gaps. Biological Invasions, 2018, 20, 923-936.	2.4	77
63	Socioâ€economic impact classification of alien taxa (<scp>SEICAT</scp>). Methods in Ecology and Evolution, 2018, 9, 159-168.	5.2	244
64	Biodiversity assessments: Origin matters. PLoS Biology, 2018, 16, e2006686.	5.6	52
65	Behavioral differences in an overâ€invasion scenario: marbled vs. spinyâ€cheek crayfish. Ecosphere, 2018, 9, e02385.	2.2	25
66	Insights from modeling studies on how climate change affects invasive alien species geography. Ecology and Evolution, 2018, 8, 5688-5700.	1.9	126
67	Spatial and topical imbalances in biodiversity research. PLoS ONE, 2018, 13, e0199327.	2.5	56
68	Which Taxa Are Alien? Criteria, Applications, and Uncertainties. BioScience, 2018, 68, 496-509.	4.9	153
69	The <i>Alliance for Freshwater Life</i>: A global call to unite efforts for freshwater biodiversity science and conservation. Aquatic Conservation: Marine and Freshwater Ecosystems, 2018, 28, 1015-1022.	2.0	190
70	A vision for global monitoring of biological invasions. Biological Conservation, 2017, 213, 295-308.	4.1	178
71	Functional responses can unify invasion ecology. Biological Invasions, 2017, 19, 1667-1672.	2.4	86
72	No saturation in the accumulation of alien species worldwide. Nature Communications, 2017, 8, 14435.	12.8	1,543

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73	Fictional responses from Vonesh et al.. Biological Invasions, 2017, 19, 1677-1678.	2.4	10
74	A trophic interaction framework for identifying the invasive capacity of novel organisms. Methods in Ecology and Evolution, 2017, 8, 1786-1794.	5.2	16
75	Invasion Science: A Horizon Scan of Emerging Challenges and Opportunities. Trends in Ecology and Evolution, 2017, 32, 464-474.	8.7	312
76	Limiting similarity and Darwinâ€™s naturalization hypothesis: understanding the drivers of biotic resistance against invasive plant species. Oecologia, 2017, 183, 775-784.	2.0	43
77	Threat-dependent traits of endangered frogs. Biological Conservation, 2017, 206, 310-313.	4.1	20
78	Invasion Science: Looking Forward Rather Than Revisiting Old Ground â€“ A Reply to Zenni et al .. Trends in Ecology and Evolution, 2017, 32, 809-810.	8.7	3
79	Boomâ€bust dynamics in biological invasions: towards an improved application of the concept. Ecology Letters, 2017, 20, 1337-1350.	6.4	143
80	Exceptional body sizeâ€"extinction risk relations shed new light on the freshwater biodiversity crisis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10263-E10264.	7.1	16
81	Assessing patterns in introduction pathways of alien species by linking major invasion data bases. Journal of Applied Ecology, 2017, 54, 657-669.	4.0	96
82	Flagship umbrella species needed for the conservation of overlooked aquatic biodiversity. Conservation Biology, 2017, 31, 481-485.	4.7	70
83	Invasion Biology: Specific Problems and Possible Solutions. Trends in Ecology and Evolution, 2017, 32, 13-22.	8.7	210
84	Avoiding an Ecological Midlife Crisis: Remembering the Joy. Bulletin of the Ecological Society of America, 2016, 97, 28-30.	0.2	0
85	Setting Priorities for Monitoring and Managing Non-native Plants: Toward a Practical Approach. Environmental Management, 2016, 58, 465-475.	2.7	3
86	Warming can enhance invasion success through asymmetries in energetic performance. Journal of Animal Ecology, 2016, 85, 419-426.	2.8	21
87	Global patterns in threats to vertebrates by biological invasions. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152454.	2.6	165
88	A spatial mismatch between invader impacts and research publications. Conservation Biology, 2016, 30, 230-232.	4.7	58
89	Diversifying Skills and Promoting Teamwork in Science. Eos, 2016, 97, .	0.1	2
90	Framework and guidelines for implementing the proposed <scp>IUCN</scp> Environmental Impact Classification for Alien Taxa (<scp>EICAT</scp>). Diversity and Distributions, 2015, 21, 1360-1363.	4.1	184

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91	Ecoâ€evolutionary experience in novel species interactions. Ecology Letters, 2015, 18, 236-245.	6.4	141
92	Ecological Impacts of Alien Species: Quantification, Scope, Caveats, and Recommendations. BioScience, 2015, 65, 55-63.	4.9	301
93	Crossing Frontiers in Tackling Pathways of Biological Invasions. BioScience, 2015, 65, 769-782.	4.9	202
94	Intraspecific Trait Variation Is Correlated with Establishment Success of Alien Mammals. American Naturalist, 2015, 185, 737-746.	2.1	47
95	Are exotic species red queens?. Ethology Ecology and Evolution, 2014, 26, 101-111.	1.4	6
96	A Unified Classification of Alien Species Based on the Magnitude of their Environmental Impacts. PLoS Biology, 2014, 12, e1001850.	5.6	648
97	Phenotypic plasticity with instantaneous but delayed switches. Journal of Theoretical Biology, 2014, 340, 60-72.	1.7	19
98	Advancing impact prediction and hypothesis testing in invasion ecology using a comparative functional response approach. Biological Invasions, 2014, 16, 735-753.	2.4	214
99	Decision tools for managing biological invasions: existing biases and future needs. Oryx, 2014, 48, 56-63.	1.0	52
100	Defining the Impact of Nonâ€Native Species. Conservation Biology, 2014, 28, 1188-1194.	4.7	308
101	The enemy release hypothesis as a hierarchy of hypotheses. Oikos, 2014, 123, 741-750.	2.7	140
102	General hypotheses in invasion ecology. Diversity and Distributions, 2014, 20, 1229-1234.	4.1	129
103	Decomposing propagule pressure: the effects of propagule size and propagule frequency on invasion success. Oikos, 2014, 123, 441-450.	2.7	32
104	Novel Organisms: Comparing Invasive Species, GMOs, and Emerging Pathogens. Ambio, 2013, 42, 541-548.	5.5	70
105	Plastic animals in cages: behavioural flexibility and responses to captivity. Animal Behaviour, 2013, 85, 1113-1126.	1.9	91
106	Managing invasive species amidst high uncertainty and novelty. Trends in Ecology and Evolution, 2013, 28, 255-256.	8.7	20
107	Collegiality versus Competition: How Metrics Shape Scientific Communities. BioScience, 2013, 63, 155-156.	4.9	12
108	Conceptual Frameworks and Methods for Advancing Invasion Ecology. Ambio, 2013, 42, 527-540.	5.5	62

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109	Taxonomic bias and lack of crossâ€taxonomic studies in invasion biology. Frontiers in Ecology and the Environment, 2012, 10, 349-350.	4.0	36
110	Comparing factors associated with total and dead sooty shearwater bycatch in New Zealand trawl fisheries. Biological Conservation, 2011, 144, 1859-1865.	4.1	3
111	Do biodiversity and human impact influence the introduction or establishment of alien mammals?. Oikos, 2011, 120, 57-64.	2.7	26
112	Invasive species in Europe: ecology, status, and policy. Environmental Sciences Europe, 2011, 23, .	11.0	295
113	Integrating biological invasions, climate change and phenotypic plasticity. Communicative and Integrative Biology, 2011, 4, 247-250.	1.4	48
114	Von r-Strategen und K-Strategen sowie schnellen und langsamen Lebenszyklen. , 2011, , 95-113.		0
115	Chapter Eight. Invasion Biology and Parasitic Infections. , 2010, , 179-204.		5
116	Long-term data on invaders: when the fox is away, the mink will play. Biological Invasions, 2010, 12, 633-641.	2.4	53
117	Are invaders different? A conceptual framework of comparative approaches for assessing determinants of invasiveness. Ecology Letters, 2010, 13, 947-958.	6.4	383
118	The roles of body size and phylogeny in fast and slow life histories. Evolutionary Ecology, 2009, 23, 867-878.	1.2	98
119	Invasion success and threat status: two sides of a different coin?. Ecography, 2009, 32, 83-88.	4.5	33
120	Across islands and continents, mammals are more successful invaders than birds (Reply to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	4.1	4
121	Mortality and other determinants of bird divorce rate. Behavioral Ecology and Sociobiology, 2008, 63, 1-9.	1.4	46
122	Usefulness of Bioclimatic Models for Studying Climate Change and Invasive Species. Annals of the New York Academy of Sciences, 2008, 1134, 1-24.	3.8	302
123	Across islands and continents, mammals are more successful invaders than birds. Diversity and Distributions, 2008, 14, 913-916.	4.1	65
124	Predicting and testing functional responses: An example from a tardigradeâ€"nematode system. Basic and Applied Ecology, 2008, 9, 145-151.	2.7	23
125	Are threat status and invasion success two sides of the same coin?. Ecography, 2008, 31, 124-130.	4.5	47
126	How partnerships end in guillemots Uria aalge: chance events, adaptive change, or forced divorce?. Behavioral Ecology, 2007, 18, 460-466.	2.2	37

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127	A DIRECT, EXPERIMENTAL TEST OF RESOURCE VS. CONSUMER DEPENDENCE: COMMENT. Ecology, 2007, 88, 1600-1602.	3.2	15
128	Prey swarming: which predators become confused and why?. Animal Behaviour, 2007, 74, 387-393.	1.9	113
129	When carnivores are â€œfull and lazyâ€. Oecologia, 2007, 152, 357-364.	2.0	53
130	Time and energy constraints: reply to Nolet and Klaassen (2005). Oikos, 2006, 114, 553-554.	2.7	3
131	Understanding the long-term effects of species invasions. Trends in Ecology and Evolution, 2006, 21, 645-651.	8.7	828
132	Determinants of vertebrate invasion success in Europe and North America. Global Change Biology, 2006, 12, 1608-1619.	9.5	246
133	Density-dependent effects of prey defenses and predator offenses. Journal of Theoretical Biology, 2006, 242, 900-907.	1.7	39
134	Predicting Herbivore Feeding Times. Ethology, 2005, 111, 187-206.	1.1	31
135	Effects of predator confusion on functional responses. Oikos, 2005, 111, 547-555.	2.7	45
136	From The Cover: Invasion success of vertebrates in Europe and North America. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7198-7202.	7.1	323
137	Consumer-food systems: why type I functional responses are exclusive to filter feeders. Biological Reviews, 2004, 79, 337-349.	10.4	302
138	PREDATOR FUNCTIONAL RESPONSES: DISCRIMINATING BETWEEN HANDLING AND DIGESTING PREY. Ecological Monographs, 2002, 72, 95-112.	5.4	510
139	Predator Functional Responses: Discriminating between Handling and Digesting Prey. Ecological Monographs, 2002, 72, 95.	5.4	13
140	Exact compensation of stream drift as an evolutionarily stable strategy. Oikos, 2001, 92, 522-530.	2.7	41
141	Density-dependent effects of prey defences. Oecologia, 2000, 123, 391-396.	2.0	74
142	Support for major hypotheses in invasion biology is uneven and declining. NeoBiota, 0, 14, 1-20.	1.0	278
143	Scientific and Normative Foundations for the Valuation of Alien-Species Impacts: Thirteen Core Principles. BioScience, 0, , biw160.	4.9	24
144	Towards an open, zoomable atlas for invasion science and beyond. NeoBiota, 0, 68, 5-18.	1.0	12

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145	Some reflections on current invasion science and perspectives for an exciting future. NeoBiota, 0, 68, 79-100.	1.0	12
146	Characteristics of exotic ants in North America. NeoBiota, 0, 10, 47-64.	1.0	25
147	Can Daphnia lumholtzi invade European lakes?. NeoBiota, 0, 16, 39-57.	1.0	10
148	The role of eco-evolutionary experience inÂinvasionÂsuccess. NeoBiota, 0, 17, 57-74.	1.0	66
149	Troubling travellers: are ecologically harmful alien species associated with particular introduction pathways?. NeoBiota, 0, 32, 1-20.	1.0	58
150	Consistency of impact assessment protocols for non-native species. NeoBiota, 0, 44, 1-25.	1.0	45
151	Introducing AlienScenarios: a project to develop scenarios and models of biological invasions for the 21 st century. NeoBiota, 0, 45, 1-17.	1.0	17
152	A citation-based map of concepts in invasion biology. NeoBiota, 0, 47, 23-42.	1.0	14
153	InvasiBES: Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services. NeoBiota, 0, 50, 109-122.	1.0	45
154	Open Access journals need to become first choice, in invasion ecology and beyond. NeoBiota, 0, 52, 1-8.	1.0	3
155	Context-dependent differences in the functional responses of conspecific native and non-native crayfishes. NeoBiota, 0, 54, 71-88.	1.0	9
156	Application of the Socio-Economic Impact Classification for Alien Taxa (SEICAT) to a global assessment of alien bird impacts. NeoBiota, 0, 62, 123-142.	1.0	14
157	Increasing understanding of alien species through citizen science (Alien-CSI). Research Ideas and Outcomes, 0, 4, .	1.0	30
158	Open minded and open access: introducing NeoBiota, a new peer-reviewed journal of biological invasions. NeoBiota, 0, 9, 1-12.	1.0	1
159	SKG4EOSC - Scholarly Knowledge Graphs for EOSC: Establishing a backbone of knowledge graphs for FAIR Scholarly Information in EOSC. Research Ideas and Outcomes, 0, 8, .	1.0	5
160	Mapping and assessing the knowledge base of ecological restoration. Restoration Ecology, 0, , .	2.9	6