H Resit AkÃ§akaya

List of Publications by Year
in descending order

124 papers	13,514 citations	30070 54 h-index	22832 112 g-index
129 all docs	129 docs citations	129 times ranked	13976 citing authors

#	Article	IF	Citations
1	The Impact of Conservation on the Status of the Worldâ€™s Vertebrates. Science, 2010, 330, 1503-1509.	12.6	1,209
2	Quantification of Extinction Risk: IUCN's System for Classifying Threatened Species. Conservation Biology, 2008, 22, 1424-1442.	4.7	1,048
3	Assessing species vulnerability to climate change. Nature Climate Change, 2015, 5, 215-224.	18.8	856
4	Identifying the World's Most Climate Change Vulnerable Species: A Systematic Trait-Based Assessment of all Birds, Amphibians and Corals. PLoS ONE, 2013, 8, e65427.	2.5	719
5	Predicting extinction risks under climate change: coupling stochastic population models with dynamic bioclimatic habitat models. Biology Letters, 2008, 4, 560-563.	2.3	552
6	Predictive accuracy of population viability analysis in conservation biology. Nature, 2000, 404, 385-387.	27.8	517
7	Global Gap Analysis: Priority Regions for Expanding the Global Protected-Area Network. BioScience, 2004, 54, 1092.	4.9	516
8	Measuring Global Trends in the Status of Biodiversity: Red List Indices for Birds. PLoS Biology, 2004, 2, e383.	5.6	364
9	Life history and spatial traits predict extinction risk due to climate change. Nature Climate Change, 2014, 4, 217-221.	18.8	341
10	Climate change vulnerability assessment of species. Wiley Interdisciplinary Reviews: Climate Change, 2019, 10, e551.	8.1	255
11	Improvements to the Red List Index. PLoS ONE, 2007, 2, e140.	2.5	253
12	Variation in Plankton Densities Among Lakes: A Case for Ratio-Dependent Predation Models. American Naturalist, 1991, 138, 1287-1296.	2.1	250
13	Ratio-Dependent Predation: An Abstraction That Works. Ecology, 1995, 76, 995-1004.	3.2	237
14	Making Consistent IUCN Classifications under Uncertainty. Conservation Biology, 2000, 14, 1001-1013.	4.7	236
15	Plant extinction risk under climate change: are forecast range shifts alone a good indicator of species vulnerability to global warming?. Global Change Biology, 2012, 18, 1357-1371.	9.5	182
16	Measuring Terrestrial Area of Habitat (AOH) and Its Utility for the IUCN Red List. Trends in Ecology and Evolution, 2019, 34, 977-986.	8.7	181
17	Consequences of Ratio-Dependent Predation for Steady-State Properties of Ecosystems. Ecology, 1992, 73, 1536-1543.	3.2	171
18	Quantifying species recovery and conservation success to develop an IUCN Green List of Species. Conservation Biology, 2018, 32, 1128-1138.	4.7	167

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19	Generation lengths of the world's birds and their implications for extinction risk. Conservation Biology, 2020, 34, 1252-1261.	4.7	162
20	Use and misuse of the IUCN Red List Criteria in projecting climate change impacts on biodiversity. Global Change Biology, 2006, 12, 2037-2043.	9.5	161
21	Underestimation of mutual interference of predators. Oecologia, 1990, 83, 358-361.	2.0	155
22	Population Cycles of Mammals: Evidence for a Ratioâ€Dependent Predation Hypothesis. Ecological Monographs, 1992, 62, 119-142.	5.4	153
23	Integrating Landscape and Metapopulation Modeling Approaches: Viability of the Sharp-Tailed Grouse in a Dynamic Landscape. Conservation Biology, 2004, 18, 526-537.	4.7	149
24	Toward monitoring global biodiversity. Conservation Letters, 2008, 1, 18-26.	5.7	144
25	Reconstructibility of Density Dependence and the Conservative Assessment of Extinction Risks. Conservation Biology, 1990, 4, 63-70.	4.7	143
26	Value of the IUCN Red List. Trends in Ecology and Evolution, 2003, 18, 214-215.	8.7	141
27	Clarifying misconceptions of extinction risk assessment with the IUCN Red List. Biology Letters, 2016, 12, 20150843.	2.3	137
28	Combining static and dynamic variables in species distribution models under climate change. Methods in Ecology and Evolution, 2012, 3, 349-357.	5.2	135
29	Multiscale scenarios for nature futures. Nature Ecology and Evolution, 2017, 1, 1416-1419.	7.8	131
30	A review of the generic computer programs ALEX, RAMAS/space and VORTEX for modelling the viability of wildlife metapopulations. Ecological Modelling, 1995, 82, 161-174.	2.5	130
31	A Habitat-Based Metapopulation Model of the California Gnatcatcher. Conservation Biology, 1997, 11, 422-434.	4.7	130
32	Sustainability indices for exploited populations. Trends in Ecology and Evolution, 2001, 16, 686-692.	8.7	130
33	Integrating bioclimate with population models to improve forecasts of species extinctions under climate change. Biology Letters, 2009, 5, 723-725.	2.3	124
34	Linking landscape data with population viability analysis: management options for the helmeted honeyeater Lichenostomus melanops cassidix. Biological Conservation, 1995, 73, 169-176.	4.1	117
35	Tools for integrating range change, extinction risk and climate change information into conservation management. Ecography, 2013, 36, 956-964.	4.5	111
36	Conservation status of polar bears (<i>Ursus maritimus</i>) in relation to projected sea-ice declines. Biology Letters, 2016, 12, 20160556.	2.3	111

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37	A method for simulating demographic stochasticity. Ecological Modelling, 1991, 54, 133-136.	2.5	107
38	Critiques of PVA Ask the Wrong Questions: Throwing the Heuristic Baby Out with the Numerical Bath Water. Conservation Biology, 2002, 16, 262-263.	4.7	107
39	Spotted Owl Metapopulation Dynamics in Southern California. Journal of Animal Ecology, 1994, 63, 775.	2.8	99
40	Adapted conservation measures are required to save the Iberian lynx in a changing climate. Nature Climate Change, 2013, 3, 899-903.	18.8	96
41	The thetaâ€logistic is unreliable for modelling most census data. Methods in Ecology and Evolution, 2010, 1, 253-262.	5.2	87
42	Role of Ecological Modeling in Risk Assessment. Human and Ecological Risk Assessment (HERA), 2003, 9, 939-972.	3.4	79
43	Detecting Extinction Risk from Climate Change by IUCN Red List Criteria. Conservation Biology, 2014, 28, 810-819.	4.7	77
44	Assessing human impact despite uncertainty:viability of the northern spotted owl metapopulation in the northwestern USA. Biodiversity and Conservation, 1998, 7, 875-894.	2.6	76
45	Warning times for species extinctions due to climate change. Global Change Biology, 2015, 21, 1066-1077.	9.5	75
46	Population dynamics can be more important than physiological limits for determining range shifts under climate change. Global Change Biology, 2013, 19, 3224-3237.	9.5	73
47	Impact of alternative metrics on estimates of extent of occurrence for extinction risk assessment. Conservation Biology, 2016, 30, 362-370.	4.7	67
48	Analysing biodiversity and conservation knowledge products to support regional environmental assessments. Scientific Data, 2016, 3, 160007.	5.3	67
49	The use of extinction models for species conservation. Biological Conservation, 1988, 43, 9-25.	4.1	65
50	The impact of seaâ€level rise on<scp>S</scp>nowy<scp>P</scp>lovers in<scp>F</scp>lorida: integrating geomorphological, habitat, and metapopulation models. Global Change Biology, 2011, 17, 3644-3654.	9.5	65
51	Risk Assessment of UK Skylark Populations Using Life-History and Individual-Based Landscape Models. Ecotoxicology, 2005, 14, 925-936.	2.4	62
52	Bridging the research-implementation gap in IUCN Red List assessments. Trends in Ecology and Evolution, 2022, 37, 359-370.	8.7	58
53	Modelling the persistence of an apparently immortal Banksia species after fire and land clearing. Biological Conservation, 1999, 88, 249-259.	4.1	56
54	A Multispecies Approach to Ecological Valuation and Conservation. Conservation Biology, 2003, 17, 196-206.	4.7	56

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55	Biodiversity Indicators Based on Trends in Conservation Status: Strengths of the IUCN Red List Index. Conservation Biology, 2006, 20, 579-581.	4.7	56
56	Treatments of Uncertainty and Variability in Ecological Risk Assessment of Single-Species Populations. Human and Ecological Risk Assessment (HERA), 2003, 9, 889-906.	3.4	55
57	An efficient protocol for the global sensitivity analysis of stochastic ecological models. Ecosphere, 2016, 7, e01238.	2.2	55
58	Temporal correlations in population trends: Conservation implications from time-series analysis of diverse animal taxa. Biological Conservation, 2015, 192, 247-257.	4.1	52
59	Testing a global standard for quantifying species recovery and assessing conservation impact. Conservation Biology, 2021, 35, 1833-1849.	4.7	51
60	Realism and Relevance of Ecological Models Used in Chemical Risk Assessment. Human and Ecological Risk Assessment (HERA), 2003, 9, 907-938.	3.4	50
61	Linking population-level risk assessment with landscape and habitat models. Science of the Total Environment, 2001, 274, 283-291.	8.0	49
62	Effects of population subdivision and catastrophes on the persistence of a land snail metapopulation. Oecologia, 1996, 105, 475-483.	2.0	47
63	Preventing species extinctions resulting from climate change. Nature Climate Change, 2014, 4, 1048-1049.	18.8	46
64	Estimating the variance of survival rates and fecundities. Animal Conservation, 2002, 5, 333-336.	2.9	44
65	Predicting and mitigating future biodiversity loss using long-term ecological proxies. Nature Climate Change, 2016, 6, 909-916.	18.8	42
66	Population-level Assessment of Risks of Pesticides to Birds and Mammals in the UK. Ecotoxicology, 2005, 14, 863-876.	2.4	41
67	Inferring extinctions III: A cost-benefit framework for listing extinct species. Biological Conservation, 2017, 214, 336-342.	4.1	40
68	Costâ€effectiveness of strategies to establish a European bison metapopulation in the Carpathians. Journal of Applied Ecology, 2011, 48, 317-329.	4.0	38
69	Modeling forest harvesting effects on landscape pattern in the Northwest Wisconsin Pine Barrens. Forest Ecology and Management, 2006, 236, 113-126.	3.2	36
70	Using historical and palaeoecological data to inform ambitious species recovery targets. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190297.	4.0	36
71	Assessing ecological function in the context of species recovery. Conservation Biology, 2020, 34, 561-571.	4.7	35
72	Maternal age effects on Atlantic cod recruitment and implications for future population trajectories. ICES Journal of Marine Science, 2015, 72, 1769-1778.	2.5	34

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73	Potential breeding distributions of U.S. birds predicted with both shortâ€term variability and longâ€term average climate data. Ecological Applications, 2016, 26, 2720-2731.	3.8	34
74	VIABILITY OF BELL'S SAGE SPARROW (AMPHISPIZA BELLI SSP. BELLI): ALTERED FIRE REGIMES. , 2005, 15, 521-531.		32
75	Bald Ibis Geronticus eremita population in Turkey: An evaluation of the captive breeding project for reintroduction. Biological Conservation, 1990, 51, 225-237.	4.1	31
76	Simulating the fate of Florida Snowy Plovers with sea-level rise: Exploring research and management priorities with a global uncertainty and sensitivity analysis perspective. Ecological Modelling, 2012, 224, 33-47.	2.5	31
77	Scaling range sizes to threats for robust predictions of risks to biodiversity. Conservation Biology, 2018, 32, 322-332.	4.7	31
78	The importance of range edges for an irruptive species during extreme weather events. Landscape Ecology, 2015, 30, 1095-1110.	4.2	30
79	Population-level mechanisms for reddened spectra in ecological time series. Journal of Animal Ecology, 2003, 72, 698-702.	2.8	29
80	Evolution of community structure: Competition. Journal of Theoretical Biology, 1988, 133, 513-523.	1.7	27
81	Fire Management, Managed Relocation, and Land Conservation Options for Longâ€Lived Obligate Seeding Plants under Global Changes in Climate, Urbanization, and Fire Regime. Conservation Biology, 2014, 28, 1057-1067.	4.7	27
82	Inferring extinctions I: A structured method using information on threats. Biological Conservation, 2017, 214, 320-327.	4.1	26
83	How interactions between animal movement and landscape processes modify local range dynamics and extinction risk. Biology Letters, 2014, 10, 20140198.	2.3	25
84	The treatment of uncertainty and the structure of the IUCN threatened species categories. Biological Conservation, 1999, 89, 245-249.	4.1	24
85	Conservation and Management for Multiple Species: Integrating Field Research and Modeling into Management Decisions. Environmental Management, 2000, 26, S75-S83.	2.7	24
86	Implications of Fine-Grained Habitat Fragmentation and Road Mortality for Jaguar Conservation in the Atlantic Forest, Brazil. PLoS ONE, 2016, 11, e0167372.	2.5	24
87	Case Study Part 2: Probabilistic Modelling of Long-term Effects of Pesticides on Individual Breeding Success in Birds and Mammals. Ecotoxicology, 2005, 14, 895-923.	2.4	23
88	Predator Interference across Trophic Chains. Ecology, 1995, 76, 1310-1319.	3.2	22
89	Applied Population Ecology: Principles and Computer Exercises Using RAMAS EcoLab. Journal of Wildlife Management, 2000, 64, 1093.	1.8	22
90	Managing the longâ€term persistence of a rare cockatoo under climate change. Journal of Applied Ecology, 2012, 49, 785-794.	4.0	22

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91	Processâ€explicit models reveal pathway to extinction for woolly mammoth using patternâ€oriented validation. Ecology Letters, 2022, 25, 125-137.	6.4	22
92	Effects of prey metapopulation structure on the viability of blackâ€footed ferrets in plagueâ€impacted landscapes: a metamodelling approach. Journal of Applied Ecology, 2014, 51, 735-745.	4.0	21
93	Population Viability Analysis and Risk Assessment. , 1992, , 148-157.		21
94	The theory of population dynamicsâ€"II. Physiological delays. Bulletin of Mathematical Biology, 1988, 50, 503-515.	1.9	20
95	Case Study Part 1: How to Calculate Appropriate Deterministic Long-Term Toxicity to Exposure Ratios (TERs) for Birds and Mammals. Ecotoxicology, 2005, 14, 877-893.	2.4	20
96	Over half of threatened species require targeted recovery actions to avert humanâ€induced extinction. Frontiers in Ecology and the Environment, 2023, 21, 64-70.	4.0	19
97	Linking landscape data with population viability analysis: Management options for the helmeted honeyeater Lichenostomus melanops cassidix. Biological Conservation, 1995, 73, 169-176.	4.1	18
98	Using Scalar Models for Precautionary Assessments of Threatened Species. Conservation Biology, 2006, 20, 1499-1506.	4.7	18
99	Metapopulation Dynamics of the California Least Tern. Journal of Wildlife Management, 2003, 67, 829.	1.8	17
100	PVA in Theory and Practice. Conservation Biology, 1995, 9, 704-708.	4.7	16
101	Tracking shifting range margins using geographical centroids of metapopulations weighted by population density. Ecological Modelling, 2013, 269, 61-69.	2.5	15
102	The SAFE index is not safe. Frontiers in Ecology and the Environment, 2011, 9, 485-486.	4.0	12
103	Defining the indigenous ranges of species to account for geographic and taxonomic variation in the history of human impacts: reply to Sanderson 2019. Conservation Biology, 2019, 33, 1211-1213.	4.7	12
104	Optimizing Composite Sampling Protocols. Environmental Science & Technology, 1996, 30, 2899-2905.	10.0	11
105	Developing population models with data from marked individuals. Biological Conservation, 2016, 197, 190-199.	4.1	11
106	Unsustainable harvest of water frogs in southern Turkey for the European market. Oryx, 2021, 55, 364-372.	1.0	11
107	Using global sensitivity analysis of demographic models for ecological impact assessment. Conservation Biology, 2017, 31, 116-125.	4.7	9
108	Calculating population reductions of invertebrate species for IUCN Red List assessments. Journal of Insect Conservation, 2021, 25, 377-382.	1.4	8

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109	Methods for Determining Viability of Wildlife Populations in Large Landscapes. , 2009, , 449-471.		7
110	Inferring the nature of anthropogenic threats from longâ€term abundance records. Conservation Biology, 2015, 29, 238-249.	4.7	7
111	Building robust, practicable counterfactuals and scenarios to evaluate the impact of species conservation interventions using inferential approaches. Biological Conservation, 2021, 261, 109259.	4.1	7
112	Climate change, land cover change, and overharvesting threaten a widely used medicinal plant in <scp>S</scp>outh <scp>A</scp>frica. Ecological Applications, 2022, 32, e2545.	3.8	7
113	Community construction: speciation versus invasion. Trends in Ecology and Evolution, 1991, 6, 100-101.	8.7	6
114	IUCN launches Green Status of Species: a new standard for species recovery. Oryx, 2021, 55, 651-652.	1.0	4
115	Science and Management Investments Needed to Enhance the Use of Ecological Modeling in Decision Making. , 2003, , 249-262.		2
116	Commentary: IUCN classifications under uncertainty. Environmental Modelling and Software, 2012, 38, 119-121.	4.5	2
117	Use of Metapopulation Models in Conservation Planning. , 2002, , 405-427.		2
118	Niche Overlaps and the Evolution of Competitive Interactions. , 1989, , 32-42.		2
119	Inter-specific variability in demographic processes affects abundance-occupancy relationships. Oecologia, 2022, 198, 153-165.	2.0	2
120	Fecundity and density dependence can be estimated from markâ€"recapture data for making population projections. Condor, 2022, 124, .	1.6	1
121	Fig. P-The Scientific Figure Processor. Version 4.1.Rolf J. Sebaldt. Quarterly Review of Biology, 1992, 67, 99-100.	0.1	0
122	Risk assessment in conservation biology. Biological Conservation, 1994, 69, 229.	4.1	0
123	Plan S and publishing: reply to LehtomÃki etÂal. 2019. Conservation Biology, 2019, 33, 1203-1204.	4.7	0
124	Multivariate Analysis of Ecological Communities. P. G. N. Digby , R. A. Kempton. Quarterly Review of Biology, 1988, 63, 240-241.	0.1	0