Arpat Ozgul

List of Publications by Year
in descending order

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111 papers	4,137 citations	147801 31 h-index	144013 57 g-index
124 all docs	124 docs citations	124 times ranked	5090 citing authors

#	Article	IF	Citations
1	Coupled dynamics of body mass and population growth in response to environmental change. Nature, 2010, 466, 482-485.	27.8	518
2	Adaptive responses of animals to climate change are most likely insufficient. Nature Communications, 2019, 10, 3109.	12.8	285
3	The Dynamics of Phenotypic Change and the Shrinking Sheep of St. Kilda. Science, 2009, 325, 464-467.	12.6	271
4	The ecological forecast horizon, and examples of its uses and determinants. Ecology Letters, 2015, 18, 597-611.	6.4	242
5	How Life History Influences Population Dynamics in Fluctuating Environments. American Naturalist, 2013, 182, 743-759.	2.1	152
6	Matrix models for a changeable world: the importance of transient dynamics in population management. Journal of Applied Ecology, 2010, 47, 515-523.	4.0	132
7	Including trait-based early warning signals helps predict population collapse. Nature Communications, 2016, 7, 10984.	12.8	93
8	Indicators of transitions in biological systems. Ecology Letters, 2018, 21, 905-919.	6.4	90
9	Modeling Adaptive and Nonadaptive Responses of Populations to Environmental Change. American Naturalist, 2017, 190, 313-336.	2.1	76
10	Life history responses of meerkats to seasonal changes in extreme environments. Science, 2019, 363, 631-635.	12.6	75
11	Combining human acceptance and habitat suitability in a unified socioâ€ecological suitability model: a case study of the wolf in Switzerland. Journal of Applied Ecology, 2017, 54, 1919-1929.	4.0	71
12	Interactive lifeâ€history traits predict sensitivity of plants and animals to temporal autocorrelation. Ecology Letters, 2018, 21, 275-286.	6.4	71
13	Anthropogenic food resources foster the coexistence of distinct life history strategies: yearâ€round sedentary and migratory brown bears. Journal of Zoology, 2016, 300, 142-150.	1.7	69
14	Locomotor Ability and Wariness in Yellow-Bellied Marmots. Ethology, 2004, 110, 615-634.	1.1	63
15	A novel biomechanical approach for animal behaviour recognition using accelerometers. Methods in Ecology and Evolution, 2019, 10, 802-814.	5.2	57
16	Body size shifts and early warning signals precede the historic collapse of whale stocks. Nature Ecology and Evolution, 2017, 1, 188.	7.8	56
17	SPATIOTEMPORAL VARIATION IN SURVIVAL RATES: IMPLICATIONS FOR POPULATION DYNAMICS OF YELLOW-BELLIED MARMOTS. Ecology, 2006, 87, 1027-1037.	3.2	53
18	Factors Influencing the Detectability of Early Warning Signals of Population Collapse. American Naturalist, 2015, 186, 50-58.	2.1	52

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19	Contrasting effects of climate change on seasonal survival of a hibernating mammal. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18119-18126.	7.1	49
20	Influence of Local Demography on Asymptotic and Transient Dynamics of a Yellowâ€Bellied Marmot Metapopulation. American Naturalist, 2009, 173, 517-530.	2.1	47
21	Densityâ€dependent dispersal strategies in a cooperative breeder. Ecology, 2018, 99, 1932-1941.	3.2	46
22	Social behavior drives the dynamics of respiratory disease in threatened tortoises. Ecology, 2010, 91, 1257-1262.	3.2	44
23	Density dependence in group dynamics of a highly social mongoose, Suricata suricatta. Journal of Animal Ecology, 2012, 81, 628-639.	2.8	43
24	Social structure mediates environmental effects on group size in an obligate cooperative breeder, Suricata suricatta. Ecology, 2013, 94, 587-597.	3.2	41
25	Effect of predation risk on the presence and persistence of yellow-bellied marmot (Marmota) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	40
26	Temporal homogenization of functional and beta diversity in bird communities of the Swiss Alps. Diversity and Distributions, 2020, 26, 900-911.	4.1	39
27	Proximate causes of natal dispersal in female yellow-bellied marmots, Marmota flaviventris. Ecology, 2011, 92, 218-227.	3.2	38
28	THE INFLUENCE OF DISTURBANCE EVENTS ON SURVIVAL AND DISPERSAL RATES OF FLORIDA BOX TURTLES. , 2006, 16, 1936-1944.		37
29	Population Responses to Perturbations: The Importance of Trait-Based Analysis Illustrated through a Microcosm Experiment. American Naturalist, 2012, 179, 582-594.	2.1	37
30	Linking body mass and group dynamics in an obligate cooperative breeder. Journal of Animal Ecology, 2014, 83, 1357-1366.	2.8	37
31	Why disease ecology needs lifeâ€history theory: a host perspective. Ecology Letters, 2021, 24, 876-890.	6.4	37
32	Fissionâ€“fusion dynamics of a megaherbivore are driven by ecological, anthropogenic, temporal, and social factors. Oecologia, 2019, 191, 335-347.	2.0	36
33	Effects of patch quality and network structure on patch occupancy dynamics of a yellow-bellied marmot metapopulation. Journal of Animal Ecology, 2006, 75, 191-202.	2.8	35
34	Proximity to humans affects local social structure in a giraffe metapopulation. Journal of Animal Ecology, 2021, 90, 212-221.	2.8	34
35	Socially informed dispersal in a territorial cooperative breeder. Journal of Animal Ecology, 2018, 87, 838-849.	2.8	33
36	Demography of fluctuating populations: temporal and phase-related changes in vital rates of Microtus ochrogaster. Journal of Animal Ecology, 2004, 73, 201-215.	2.8	31

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37	The distribution of cave-dwelling bats and conservation status of underground habitats in Northwestern Turkey. Biological Conservation, 2004, 120, 243-248.	4.1	31
38	Synergistic influences of phase, density, and climatic variation on the dynamics of fluctuating populations. Ecology, 2011, 92, 1680-1690.	3.2	31
39	African Wild Dog Dispersal and Implications for Management. Journal of Wildlife Management, 2020, 84, 614-621.	1.8	31
40	Quantifying population declines based on presenceâ€only records for redâ€list assessments. Conservation Biology, 2016, 30, 1112-1121.	4.7	30
41	The myriad of complex demographic responses of terrestrial mammals to climate change and gaps of knowledge: A global analysis. Journal of Animal Ecology, 2021, 90, 1398-1407.	2.8	30
42	Cost of dispersal in a social mammal: body mass loss and increased stress. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190033.	2.6	28
43	Upper respiratory tract disease, force of infection, and effects on survival of gopher tortoises. Ecological Applications, 2009, 19, 786-798.	3.8	27
44	Maternal, social and abiotic environmental effects on growth vary across life stages in a cooperative mammal. Journal of Animal Ecology, 2014, 83, 332-342.	2.8	27
45	Disentangling evolutionary, plastic and demographic processes underlying trait dynamics: a review of four frameworks. Methods in Ecology and Evolution, 2017, 8, 75-85.	5.2	26
46	Rate of forcing and the forecastability of critical transitions. Ecology and Evolution, 2016, 6, 7787-7793.	1.9	25
47	Advances in population ecology and species interactions in mammals. Journal of Mammalogy, 2019, 100, 965-1007.	1.3	25
48	FACTORS INFLUENCING MOVEMENT DISTANCES OF TWO SPECIES OF SYMPATRIC VOLES. Journal of Mammalogy, 2005, 86, 647-654.	1.3	24
49	Estimating the effect of temporally autocorrelated environments on the demography of densityâ€independent ageâ€structured populations. Methods in Ecology and Evolution, 2013, 4, 573-584.	5.2	24
50	Impact of changing wind conditions on foraging and incubation success in male and female wandering albatrosses. Journal of Animal Ecology, 2016, 85, 1318-1327.	2.8	24
51	When Do Shifts in Trait Dynamics Precede Population Declines?. American Naturalist, 2019, 193, 633-644.	2.1	24
52	Spatiotemporal variation in reproductive parameters of yellow-bellied marmots. Oecologia, 2007, 154, 95-106.	2.0	23
53	Direct negative densityâ€dependence in a pondâ€breeding frog population. Ecography, 2016, 39, 449-455.	4.5	23
54	Behavioural compass: animal behaviour recognition using magnetometers. Movement Ecology, 2019, 7, 28.	2.8	22

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55	Sociability increases survival of adult female giraffes. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202770.	2.6	22
56	Differential plasticity of size and mass to environmental change in a hibernating mammal. Global Change Biology, 2016, 22, 3286-3303.	9.5	20
57	When to stay and when to leave? Proximate causes of dispersal in an endangered social carnivore. Journal of Animal Ecology, 2020, 89, 2356-2366.	2.8	20
58	Distribution of cave-dwelling bats and conservation status of underground habitats in the Istanbul area. Ecological Research, 2002, 17, 69-77.	1.5	19
59	Patterns of activity and body temperature of Aldabra giant tortoises in relation to environmental temperature. Ecology and Evolution, 2018, 8, 2108-2121.	1.9	19
60	Effect of time series length and resolution on abundanceâ€•and traitâ€based early warning signals of population declines. Ecology, 2020, 101, e03040.	3.2	19
61	Assessing seasonal demographic covariation to understand environmentalâ€change impacts on a hibernating mammal. Ecology Letters, 2020, 23, 588-597.	6.4	15
62	Persistence of distinctive morphotypes in the native range of the <scp>CITES</scp>â€listed Aldabra giant tortoise. Ecology and Evolution, 2015, 5, 5499-5508.	1.9	14
63	Density feedbacks mediate effects of environmental change on population dynamics of a semidesert rodent. Journal of Animal Ecology, 2018, 87, 1534-1546.	2.8	14
64	Ecoâ€evolutionary processes underlying early warning signals of population declines. Journal of Animal Ecology, 2020, 89, 436-448.	2.8	14
65	Higher temperature extremes exacerbate negative disease effects in a social mammal. Nature Climate Change, 2022, 12, 284-290.	18.8	14
66	Distance to a Road is Associated with Reproductive Success and Physiological Stress Response in a Migratory Landbird. Wilson Journal of Ornithology, 2013, 125, 50-61.	0.2	13
67	Traitâ€“demography relationships underlying small mammal population fluctuations. Journal of Animal Ecology, 2017, 86, 348-358.	2.8	13
68	Are generic early-warning signals reliable indicators of population collapse in rotifers?. Hydrobiologia, 2017, 796, 111-120.	2.0	13
69	The interacting effects of forestry and climate change on the demography of a group-living bird population. Oecologia, 2018, 186, 907-918.	2.0	13
70	Spatiotemporal Variation in Survival of Male Yellow-bellied Marmots. Journal of Mammalogy, 2008, 89, 365-373.	1.3	12
71	Effects of Trophy Hunting Leftovers on the Ranging Behaviour of Large Carnivores: A Case Study on Spotted Hyenas. PLoS ONE, 2015, 10, e0121471.	2.5	12
72	Fathers matter: male body mass affects life-history traits in a size-dimorphic seabird. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170397.	2.6	12

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73	Lost in space? Searching for directions in the spatial modelling of individuals, populations and species ranges. Biology Letters, 2010, 6, 575-578.	2.3	11
74	Life-history responses to environmental change revealed by resurrected rotifers from a historically polluted lake. Hydrobiologia, 2017, 796, 121-130.	2.0	11
75	Estimation of Individual Growth Trajectories When Repeated Measures Are Missing. American Naturalist, 2017, 190, 377-388.	2.1	11
76	Matrix Models of Hierarchical Demography: Linking Group- and Population-Level Dynamics in Cooperative Breeders. American Naturalist, 2018, 192, 188-203.	2.1	11
77	Seek and learn: Automated identification of microevents in animal behaviour using envelopes of acceleration data and machine learning. Methods in Ecology and Evolution, 2020, 11, 1639-1651.	5.2	11
78	Bound within boundaries: Do protected areas cover movement corridors of their most mobile, protected species?. Journal of Applied Ecology, 2021, 58, 1133-1144.	4.0	11
79	Leaving by staying: Social dispersal in giraffes. Journal of Animal Ecology, 2021, 90, 2755-2766.	2.8	11
80	Socially Defined Subpopulations Reveal Demographic Variation in a Giraffe Metapopulation. Journal of Wildlife Management, 2021, 85, 920-931.	1.8	10
81	Lion population dynamics: do nomadic males matter?. Behavioral Ecology, 2018, 29, 660-666.	2.2	9
82	The effect of temporal environmental autocorrelation on ecoâ€evolutionary dynamics across life histories. Ecosphere, 2020, 11, e03029.	2.2	9
83	How well can body size represent effects of the environment on demographic rates? Disentangling correlated explanatory variables. Journal of Animal Ecology, 2016, 85, 318-328.	2.8	8
84	Timing outweighs magnitude of rainfall in shaping population dynamics of a small mammal species in steppe grassland. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
85	Behavioural change during dispersal and its relationship to survival and reproduction in a cooperative breeder. Journal of Animal Ecology, 2021, 90, 2637-2650.	2.8	7
86	Habitat suitability models based on opportunistic citizen science data: Evaluating forecasts from alternative methods versus an individualâ€based model. Diversity and Distributions, 0, , .	4.1	7
87	A Trade-Off between Robustness to Environmental Fluctuations and Speed of Evolution. American Naturalist, 2022, 200, E16-E35.	2.1	7
88	Interactive effects of exogenous and endogenous factors on demographic rates of an African rodent. Oikos, 2016, 125, 1838-1848.	2.7	6
89	The effect of aquatic and terrestrial habitat characteristics on occurrence and breeding probability in a montane amphibian: insights from a spatially explicit multistate occupancy model. Population Ecology, 2017, 59, 71-78.	1.2	6
90	Group size and social status affect scent marking in dispersing female meerkats. Behavioral Ecology, 2019, 30, 1602-1610.	2.2	6

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91	Effect of habitat quality and phenotypic variation on abundanceâ€•and traitâ€based early warning signals of population collapses. Oikos, 2021, 130, 850-862.	2.7	6
92	Bird species coâ€•occurrence patterns in an alpine environment supports the stressâ€gradient hypothesis. Oikos, 2021, 130, 1905-1918.	2.7	6
93	Dispersal Decreases Survival but Increases Reproductive Opportunities for Subordinates in a Cooperative Breeder. American Naturalist, 2022, 199, 679-690.	2.1	6
94	Demographic processes underlying fitness restoration in bdelloid rotifers emerging from dehydration. Freshwater Biology, 2019, 64, 1295-1302.	2.4	5
95	Spatial heterogeneity in temporal dynamics of Alpine bird communities along an elevational gradient. Journal of Biogeography, 2021, 48, 886-902.	3.0	5
96	Modeling Distribution and Habitat Suitability for the Snow Leopard in Bhutan. Frontiers in Conservation Science, 2021, 2, .	1.9	5
97	Demographic cost and mechanisms of adaptation to environmental stress in resurrected Daphnia. Journal of Limnology, 2016, 75, .	1.1	4
98	Design of SNP markers for Aldabra giant tortoises using low coverage ddRAD-seq. Conservation Genetics Resources, 2021, 13, 409-412.	0.8	4
99	Eyes, ears, or nose? Comparison of three non-invasive methods to survey wolf recolonisation. Mammalian Biology, 2021, 101, 881-893.	1.5	4
100	Lowâ€coverage reduced representation sequencing reveals subtle withinâ€island genetic structure in Aldabra giant tortoises. Ecology and Evolution, 2022, 12, e8739.	1.9	4
101	Cooperation by necessity: condition- and density-dependent reproductive tactics of female house mice. Communications Biology, 2022, 5, 348.	4.4	4
102	Community structure determines the predictability of population collapse. Journal of Animal Ecology, 2022, 91, 1880-1891.	2.8	4
103	Rotifers in Lake Orta: a potential ecological and evolutionary model system. Journal of Limnology, 2016, 75, .	1.1	3
104	Ecological determinants of livestock depredation by the snow leopard Panthera uncia in Bhutan. Journal of Zoology, 2021, 314, 275-284.	1.7	3
105	Lifeâ€history responses of a freshwater rotifer to copper pollution. Ecology and Evolution, 2021, 11, 10947-10955.	1.9	3
106	Trophic processes constrain seasonal ungulate distributions at two scales in an East African savanna. Journal of Mammalogy, 2022, 103, 956-969.	1.3	3
107	Greenâ€up selection by red deer in heterogeneous, humanâ€dominated landscapes of Central Europe. Ecology and Evolution, 2022, 12, .	1.9	3
108	High elevation bird communities in the Swiss Alps exhibit reduced fecundity and lifespan independently of phylogenetic effects. Biodiversity and Conservation, 2021, 30, 991-1010.	2.6	2

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109	Forest management affects seasonal source-sink dynamics in a territorial, group-living bird. Oecologia, 2021, 196, 399-412.	2.0	2
110	Distinct body-size responses to warming climate in three rodent species. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20220015.	2.6	2
111	Reply to â€˜Whaling catch data are not reliable for analyses of body size shiftsâ€™. Nature Ecology and Evolution, 2018, 2, 757-758.	7.8	0