

Jan A Van Gils

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,627
citations

109321

35
h-index

144013

57
g-index

84
all docs

84
docs citations

84
times ranked

3409
citing authors

#	ARTICLE	IF	CITATIONS
1	Mismatch-induced growth reductions in a clade of Arctic breeding shorebirds are rarely mitigated by increasing temperatures. <i>Global Change Biology</i> , 2022, 28, 829-847.	9.5	8
2	Sulfur in lucinid bivalves inhibits intake rates of a molluscivore shorebird. <i>Oecologia</i> , 2022, 199, 69-78.	2.0	1
3	Exploring the drivers of variation in trophic mismatches: A systematic review of long-term avian studies. <i>Ecology and Evolution</i> , 2021, 11, 3710-3725.	1.9	16
4	Individual-Level Memory Is Sufficient to Create Spatial Segregation among Neighboring Colonies of Central Place Foragers. <i>American Naturalist</i> , 2021, 198, E37-E52.	2.1	11
5	Migratory vertebrates shift migration timing and distributions in a warming Arctic. <i>Animal Migration</i> , 2021, 8, 110-131.	1.0	6
6	The interactive role of predation, competition and habitat conditions in structuring an intertidal bivalve population. <i>Journal of Experimental Marine Biology and Ecology</i> , 2020, 523, 151267.	1.5	9
7	The intertidal mudflats of Barr Al Hikman, Sultanate of Oman, as feeding, reproduction and nursery grounds for brachyuran crabs. <i>Hydrobiologia</i> , 2020, 847, 4295-4309.	2.0	4
8	Individual diet differences in a molluscivore shorebird are associated with the size of body instruments for internal processing rather than for feeding. <i>Journal of Avian Biology</i> , 2019, 50, .	1.2	5
9	Morphological and digestive adjustments buffer performance: How staging shorebirds cope with severe food declines. <i>Ecology and Evolution</i> , 2019, 9, 3868-3878.	1.9	26
10	Persistent use of a shorebird staging site in the Yellow Sea despite severe declines in food resources implies a lack of alternatives. <i>Bird Conservation International</i> , 2018, 28, 534-548.	1.3	42
11	Food web consequences of an evolutionary arms race: Molluscs subject to crab predation on intertidal mudflats in Oman are unavailable to shorebirds. <i>Journal of Biogeography</i> , 2018, 45, 342-354.	3.0	11
12	Resource landscapes explain contrasting patterns of aggregation and site fidelity by red knots at two wintering sites. <i>Movement Ecology</i> , 2018, 6, 24.	2.8	23
13	Fuelling conditions at staging sites can mitigate Arctic warming effects in a migratory bird. <i>Nature Communications</i> , 2018, 9, 4263.	12.8	62
14	A facultative mutualistic feedback enhances the stability of tropical intertidal seagrass beds. <i>Scientific Reports</i> , 2018, 8, 12988.	3.3	20
15	Stomach fullness shapes prey choice decisions in crab plovers (<i>Dromas ardeola</i>). <i>PLoS ONE</i> , 2018, 13, e0194824.	2.5	3
16	Chronobiology of interspecific interactions in a changing world. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160248.	4.0	69
17	Burrowing Behavior of a Deposit Feeding Bivalve Predicts Change in Intertidal Ecosystem State. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	17
18	Diet preferences as the cause of individual differences rather than the consequence. <i>Journal of Animal Ecology</i> , 2016, 85, 1378-1388.	2.8	21

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19	Understanding spatial distributions: negative density-dependence in prey causes predators to trade-off prey quantity with quality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20151557.	2.6	31
20	Body shrinkage due to Arctic warming reduces red knot fitness in tropical wintering range. <i>Science</i> , 2016, 352, 819-821.	12.6	160
21	Hampered performance of migratory swans: intra- and inter-seasonal effects of avian influenza virus. <i>Integrative and Comparative Biology</i> , 2016, 56, 317-329.	2.0	21
22	Structurally complex sea grass obstructs the sixth sense of a specialized avian molluscivore. <i>Animal Behaviour</i> , 2016, 115, 55-67.	1.9	12
23	Drought, Mutualism Breakdown, and Landscape-Scale Degradation of Seagrass Beds. <i>Current Biology</i> , 2016, 26, 1051-1056.	3.9	69
24	How habitat-modifying organisms structure the food web of two coastal ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152326.	2.6	58
25	Phenotype-limited distributions: short-billed birds move away during times that prey bury deeply. <i>Royal Society Open Science</i> , 2015, 2, 150073.	2.4	11
26	The Effect of Digestive Capacity on the Intake Rate of Toxic and Non-Toxic Prey in an Ecological Context. <i>PLoS ONE</i> , 2015, 10, e0136144.	2.5	7
27	Natural selection by pulsed predation: survival of the thickest. <i>Ecology</i> , 2015, 96, 1943-1956.	3.2	21
28	Field measurements give biased estimates of functional response parameters, but help explain foraging distributions. <i>Journal of Animal Ecology</i> , 2015, 84, 565-575.	2.8	12
29	Ways to be different: foraging adaptations that facilitate higher intake rates in a northerly-wintering shorebird compared to a low-latitude conspecific. <i>Journal of Experimental Biology</i> , 2015, 218, 1188-97.	1.7	4
30	Benefits of foraging in small groups: An experimental study on public information use in red knots <i>Calidris canutus</i> . <i>Behavioural Processes</i> , 2015, 117, 74-81.	1.1	20
31	Moving on with foraging theory: incorporating movement decisions into the functional response of a gregarious shorebird. <i>Journal of Animal Ecology</i> , 2015, 84, 554-564.	2.8	25
32	Validating the Incorporation of ¹³ C and ¹⁵ N in a Shorebird That Consumes an Isotopically Distinct Chemosymbiotic Bivalve. <i>PLoS ONE</i> , 2015, 10, e0140221.	2.5	5
33	Digestive Capacity and Toxicity Cause Mixed Diets in Red Knots That Maximize Energy Intake Rate. <i>American Naturalist</i> , 2014, 183, 650-659.	2.1	28
34	Personality drives physiological adjustments and is not related to survival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20133135.	2.6	36
35	The exception to the rule: retreating ice front makes Bewick's swans <i>Cygnus columbianus bewickii</i> migrate slower in spring than in autumn. <i>Journal of Avian Biology</i> , 2014, 45, 113-122.	1.2	41
36	Interference from adults forces young red knots to forage for longer and in dangerous places. <i>Animal Behaviour</i> , 2014, 88, 137-146.	1.9	30

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37	Optimizing acceleration-based ethograms: the use of variable-time versus fixed-time segmentation. <i>Movement Ecology</i> , 2014, 2, 6.	2.8	37
38	Seasonal changes in mollusc abundance in a tropical intertidal ecosystem, Banc d'Arguin (Mauritania): Testing the "depletion by shorebirds" hypothesis. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 136, 26-34.	2.1	40
39	Sex-specific winter distribution in a sexually dimorphic shorebird is explained by resource partitioning. <i>Ecology and Evolution</i> , 2014, 4, 4009-4018.	1.9	23
40	Nutritional and reproductive strategies in a chemosymbiotic bivalve living in a tropical intertidal seagrass bed. <i>Marine Ecology - Progress Series</i> , 2014, 501, 113-126.	1.9	32
41	Red Knot diet reconstruction revisited: context dependence revealed by experiments at Banc d'Arguin, Mauritania. <i>Bird Study</i> , 2013, 60, 298-307.	1.0	15
42	Economic design in a long-distance migrating molluscivore: how fast-fuelling red knots in Bohai Bay, China, get away with small gizzards. <i>Journal of Experimental Biology</i> , 2013, 216, 3627-3636.	1.7	39
43	Toxin constraint explains diet choice, survival and population dynamics in a molluscivore shorebird. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130861.	2.6	32
44	Trophic cascade induced by molluscivore predator alters porewater biogeochemistry via competitive release of prey. <i>Ecology</i> , 2012, 93, 1143-1152.	3.2	31
45	Seagrass "Sediment Feedback: An Exploration Using a Non-recursive Structural Equation Model. <i>Ecosystems</i> , 2012, 15, 1380-1393.	3.4	57
46	Small-scale demographic structure suggests preemptive behavior in a flocking shorebird. <i>Behavioral Ecology</i> , 2012, 23, 1226-1233.	2.2	23
47	A Three-Stage Symbiosis Forms the Foundation of Seagrass Ecosystems. <i>Science</i> , 2012, 336, 1432-1434.	12.6	204
48	Designing a benthic monitoring programme with multiple conflicting objectives. <i>Methods in Ecology and Evolution</i> , 2012, 3, 526-536.	5.2	62
49	Habitat carrying capacity is reached for the European eel in a small coastal catchment: evidence and implications for managing eel stocks. <i>Freshwater Biology</i> , 2011, 56, 952-968.	2.4	36
50	Suitability of calcein as an in situ growth marker in burrowing bivalves. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 399, 1-7.	1.5	44
51	Scaling up ideals to freedom: are densities of red knots across western Europe consistent with ideal free distribution?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2728-2736.	2.6	37
52	Why Afro-Siberian Red Knots (<i>Calidris Canutus Canutus</i>) have Stopped Staging in the Western Dutch Wadden Sea During Southward Migration. <i>Ardea</i> , 2010, 98, 155-160.	0.6	9
53	State-dependent Bayesian foraging on spatially autocorrelated food distributions. <i>Oikos</i> , 2010, 119, 237-244.	2.7	24
54	The ecology of information: an overview on the ecological significance of making informed decisions. <i>Oikos</i> , 2010, 119, 304-316.	2.7	235

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55	Beyond the information centre hypothesis: communal roosting for information on food, predators, travel companions and mates?. <i>Oikos</i> , 2010, 119, 277-285.	2.7	70
56	Biological information in an ecological context. <i>Oikos</i> , 2010, 119, 201-202.	2.7	10
57	Diet selection in a molluscivore shorebird across Western Europe: does it show short- or long-term intake rate maximization?. <i>Journal of Animal Ecology</i> , 2010, 79, 53-62.	2.8	37
58	Landscape-scale experiment demonstrates that Wadden Sea intertidal flats are used to capacity by molluscivore migrant shorebirds. <i>Journal of Animal Ecology</i> , 2009, 78, 1259-1268.	2.8	77
59	Reversed optimality and predictive ecology: burrowing depth forecasts population change in a bivalve. <i>Biology Letters</i> , 2009, 5, 5-8.	2.3	38
60	Longer guts and higher food quality increase energy intake in migratory swans. <i>Journal of Animal Ecology</i> , 2008, 77, 1234-1241.	2.8	26
61	Short-Term Foraging Costs and Long-Term Fueling Rates in Central-Place Foraging Swans Revealed by Giving-Up Exploitation Times. <i>American Naturalist</i> , 2007, 169, 609-620.	2.1	37
62	Digestive Organ Size and Behavior of Red Knots (<i>Calidris Canutus</i>) Indicate the Quality of Their Benthic Food Stocks. <i>Israel Journal of Ecology and Evolution</i> , 2007, 53, 329-346.	0.6	16
63	AVIAN HERBIVORY: AN EXPERIMENT, A FIELD TEST, AND AN ALLOMETRIC COMPARISON WITH MAMMALS. <i>Ecology</i> , 2007, 88, 2926-2935.	3.2	23
64	Hampered Foraging and Migratory Performance in Swans Infected with Low-Pathogenic Avian Influenza A Virus. <i>PLoS ONE</i> , 2007, 2, e184.	2.5	195
65	FORAGING IN A TIDALLY STRUCTURED ENVIRONMENT BY RED KNOTS (<i>CALIDRIS CANUTUS</i>): IDEAL, BUT NOT FREE. <i>Ecology</i> , 2006, 87, 1189-1202.	3.2	106
66	Optimal movement between patches under incomplete information about the spatial distribution of food items. <i>Theoretical Population Biology</i> , 2006, 70, 452-463.	1.1	41
67	High-tide habitat choice: insights from modelling roost selection by shorebirds around a tropical bay. <i>Animal Behaviour</i> , 2006, 72, 563-575.	1.9	81
68	Shellfish Dredging Pushes a Flexible Avian Top Predator out of a Marine Protected Area. <i>PLoS Biology</i> , 2006, 4, e376.	5.6	82
69	Digestive bottleneck affects foraging decisions in red knots <i>Calidris canutus</i> . I. Prey choice. <i>Journal of Animal Ecology</i> , 2005, 74, 105-119.	2.8	109
70	Digestive bottleneck affects foraging decisions in red knots <i>Calidris canutus</i> . II. Patch choice and length of working day. <i>Journal of Animal Ecology</i> , 2005, 74, 120-130.	2.8	96
71	How do red knots <i>Calidris canutus</i> leave Northwest Australia in May and reach the breeding grounds in June? Predictions of stopover times, fuelling rates and prey quality in the Yellow Sea. <i>Journal of Avian Biology</i> , 2005, 36, 494-500.	1.2	37
72	Reinterpretation of gizzard sizes of red knots world-wide emphasises overriding importance of prey quality at migratory stopover sites. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2609-2618.	2.6	79

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73	How do red knots <i>Calidris canutus</i> leave Northwest Australia in May and reach the breeding grounds in June? Predictions of stopover times, fuelling rates and prey quality in the Yellow Sea. <i>Journal of Avian Biology</i> , 2005, .	1.2	0
74	Digestively constrained predators evade the cost of interference competition. <i>Journal of Animal Ecology</i> , 2004, 73, 386-398.	2.8	65
75	Carrying capacity models should not use fixed prey density thresholds: a plea for using more tools of behavioural ecology. <i>Oikos</i> , 2004, 104, 197-204.	2.7	57
76	Do body condition and plumage during fuelling predict northwards departure dates of Great Knots <i>Calidris tenuirostris</i> from north-west Australia?. <i>Ibis</i> , 2003, 146, 46-60.	1.9	52
77	Cost-benefit analysis of mollusc-eating in a shorebird II. Optimizing gizzard size in the face of seasonal demands. <i>Journal of Experimental Biology</i> , 2003, 206, 3369-3380.	1.7	123
78	Cost-benefit analysis of mollusc eating in a shorebird I. Foraging and processing costs estimated by the doubly labelled water method. <i>Journal of Experimental Biology</i> , 2003, 206, 3361-3368.	1.7	51
79	Incompletely Informed Shorebirds That Face a Digestive Constraint Maximize Net Energy Gain When Exploiting Patches. <i>American Naturalist</i> , 2003, 161, 777-793.	2.1	98
80	Holling's Functional Response Model as a Tool to Link the Food-Finding Mechanism of a Probing Shorebird with its Spatial Distribution. <i>Journal of Animal Ecology</i> , 1995, 64, 493.	2.8	94
81	FORAGING IN A TIDALLY STRUCTURED ENVIRONMENT BY RED KNOTS (<i>CALIDRIS CANUTUS</i>): IDEAL, BUT NOT FREE. , 0, .		1