Frank Van Langevelde

List of Publications by Year in Descending Order

155 papers	4,502 citations	34 h-index	62 g-index
166 ext. papers	5,219 ext. citations	4 avg, IF	5.46 L-index

#	Paper	IF	Citations
155	Influence of multiple predators decreases body condition and fecundity of European hares.. *Ecology and Evolution*, **2022**, 12, e8442	2.8	
154	Context-dependent responses of naïve ungulates to wolf-sound playback in a human-dominated landscape. *Animal Behaviour*, **2022**, 185, 9-20	2.8	0
153	Perspectives in machine learning for wildlife conservation.. *Nature Communications*, **2022**, 13, 792	17.4	11
152	Functional differences in scavenger communities and the speed of carcass decomposition.. *Ecology and Evolution*, **2022**, 12, e8576	2.8	1
151	A stronger role for long-term moisture change than for CO in determining tropical woody vegetation change.. *Science*, **2022**, 376, 653-656	33.3	1
150	Collection of human and environmental data on pesticide use in Europe and Argentina: Field study protocol for the SPRINT project. *PLoS ONE*, **2021**, 16, e0259748	3.7	3
149	Migratory vertebrates shift migration timing and distributions in a warming Arctic. *Animal Migration* , **2021**, 8, 110-131	0.6	1
148	Understanding social resilience in honeybee colonies. *Current Research in Insect Science*, **2021**, 1, 100021		
147	Interactive effects of biological, human and environmental factors on tick loads in Boran cattle in tropical drylands. *Parasites and Vectors*, **2021**, 14, 188	4	0
146	Mapping out a future for ungulate migrations. *Science*, **2021**, 372, 566-569	33.3	27
145	Responses of tropical tree seedlings in the forest–savanna boundary to combined effects of grass competition and fire. *Biotropica*, **2021**, 53, 1082-1095	2.3	0
144	Fire regimes, fire experiments and alternative stable states in mesic savannas: A response to Laris & Jacobs (2021) 'On the problem of natural savanna fires'. *New Phytologist*, **2021**, 231, 14-18	9.8	
143	Can Colony Size of Honeybees (Apis mellifera) Be Used as Predictor for Colony Losses Due to Varroa destructor during Winter?. *Agriculture (Switzerland)*, **2021**, 11, 529	3	4
142	Relationships of reproductive performance indicators in black rhinoceros (Diceros bicornis michaeli) with plant available moisture, plant available nutrients and woody cover. *African Journal of Ecology*, **2021**, 59, 2-16	0.8	1
141	Timely poacher detection and localization using sentinel animal movement. *Scientific Reports*, **2021**, 11, 4596	4.9	1
140	Co-occurrence of high densities of brown hyena and spotted hyena in central Tuli, Botswana. *Journal of Zoology*, **2021**, 314, 143-150	2	3
139	AusTraits, a curated plant trait database for the Australian flora. *Scientific Data*, **2021**, 8, 254	8.2	6

138	Bumblebees land remarkably well in red-blue greenhouse LED light conditions. *Biology Open*, **2020**, 9,	2.2	3
137	Will legal international rhino horn trade save wild rhino populations?. *Global Ecology and Conservation*, **2020**, 23, e01145	2.8	8
136	Movement ecology of large herbivores in African savannas: current knowledge and gaps. *Mammal Review*, **2020**, 50, 252-266	5	5
135	Modeling Honey Bee Colonies in Winter Using a Keller--Segel Model With a Sign-Changing Chemotactic Coefficient. *SIAM Journal on Applied Mathematics*, **2020**, 80, 839-863	1.8	9
134	Impact of the invasive alien topmouth gudgeon (Pseudorasbora parva) and its associated parasite Sphaerothecum destruens on native fish species. *Biological Invasions*, **2020**, 22, 587-601	2.7	15
133	On the importance of root traits in seedlings of tropical tree species. *New Phytologist*, **2020**, 227, 156-167	7.8	16
132	Corpse removal increases when honey bee colonies experience high Varroa destructor infestation. *Insectes Sociaux*, **2020**, 67, 507-513	1.5	1
131	Fixed or mixed? Variation in tree functional types and vegetation structure in a forest-savanna ecotone in West Africa. *Journal of Tropical Ecology*, **2020**, 36, 133-149	1.3	2
130	Inferring an animal's environment through biologging: quantifying the environmental influence on animal movement. *Movement Ecology*, **2020**, 8, 40	4.6	3
129	infestation impairs the improvement of landing performance in foraging honeybees. *Royal Society Open Science*, **2020**, 7, 201222	3.3	1
128	Associations between monthly rainfall and mortality in cattle due to East Coast fever, anaplasmosis and babesiosis. *Parasitology*, **2020**, 147, 1743-1751	2.7	2
127	Disturbance regulates the density-body-mass relationship of soil fauna. *Ecological Applications*, **2020**, 30, e02019	4.9	2
126	Variation in vegetation cover and seedling performance of tree species in a forest-savanna ecotone. *Journal of Tropical Ecology*, **2019**, 35, 74-82	1.3	4
125	Contrasting effects of host species and phylogenetic diversity on the occurrence of HPAI H5N1 in European wild birds. *Journal of Animal Ecology*, **2019**, 88, 1044-1053	4.7	8
124	Implications of shared predation for space use in two sympatric leporids. *Ecology and Evolution*, **2019**, 9, 3457-3469	2.8	8
123	Improving the precision and accuracy of animal population estimates with aerial image object detection. *Methods in Ecology and Evolution*, **2019**, 10, 1875-1887	7.7	32
122	Effects of Grazing and Browsing on Tropical Savanna Vegetation. *Ecological Studies*, **2019**, 237-257	1.1	2
121	Seedling growth of savanna tree species from three continents under grass competition and nutrient limitation in a greenhouse experiment. *Journal of Ecology*, **2019**, 107, 1051-1066	6	11

120	The influence of wild boar (Sus scrofa) on microhabitat quality for the endangered butterfly Pyrgus malvae in the Netherlands. *Journal of Insect Conservation*, **2018**, 22, 51-59	2.1	6
119	Forest degradation influences nesting site selection of Afro-tropical stingless bee species in a tropical rain forest, Kenya. *African Journal of Ecology*, **2018**, 56, 669-674	0.8	1
118	On the relationship between fire regime and vegetation structure in the tropics. *New Phytologist*, **2018**, 218, 153-166	9.8	39
117	Two different strategies of host manipulation allow parasites to persist in intermediate-definitive host systems. *Journal of Evolutionary Biology*, **2018**, 31, 393-404	2.3	3
116	Nest defensibility decreases home-range size in central place foragers. *Behavioral Ecology*, **2018**, 29, 1038-1045	2.3	4
115	Declines in moth populations stress the need for conserving dark nights. *Global Change Biology*, **2018**, 24, 925-932	11.4	52
114	Movement Patterns of African Elephants (Loxodonta africana) in a Semi-arid Savanna Suggest That They Have Information on the Location of Dispersed Water Sources. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	11
113	Food quality and quantity are more important in explaining foraging of an intermediate-sized mammalian herbivore than predation risk or competition. *Ecology and Evolution*, **2018**, 8, 8419-8432	2.8	18
112	Compositional patterns of overstorey and understorey woody communities in a forest–savanna boundary in Ghana. *Plant Ecology and Diversity*, **2018**, 11, 451-463	2.2	4
111	Citizen science for development: Potential role of mobile phones in information sharing on ticks and tick-borne diseases in Laikipia, Kenya. *Njas - Wageningen Journal of Life Sciences*, **2018**, 86-87, 123-135	7	6
110	Colors of attraction: Modeling insect flight to light behavior. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, **2018**, 329, 434-440	1.9	36
109	Does the dilution effect generally occur in animal diseases?. *Parasitology*, **2017**, 144, 823-826	2.7	10
108	Artificial night lighting inhibits feeding in moths. *Biology Letters*, **2017**, 13,	3.6	46
107	Ecological determinants of butterfly vulnerability across the European continent. *Journal of Insect Conservation*, **2017**, 21, 439-450	2.1	24
106	MODIS VCF should not be used to detect discontinuities in tree cover due to binning bias. A comment on Hanan et al. (2014) and Staver and Hansen (2015). *Global Ecology and Biogeography*, **2017**, 26, 854-859	6.1	11
105	Fen meadows on the move for the conservation of Maculinea (Phengaris) teleius butterflies. *Journal of Insect Conservation*, **2017**, 21, 379-392	2.1	4
104	Varroa sensitive hygiene contributes to naturally selected varroa resistance in honey bees. *Journal of Apicultural Research*, **2017**, 56, 635-642	2	38
103	Do spatially homogenising and heterogenising processes affect transitions between alternative stable states?. *Ecological Modelling*, **2017**, 365, 119-128	3	5

102	Impact of habitat degradation on species diversity and nest abundance of five African stingless bee species in a tropical rainforest of Kenya. *International Journal of Tropical Insect Science*, **2017**, 37, 189-197	1	5
101	Regional level risk factors associated with the occurrence of African swine fever in West and East Africa. *Parasites and Vectors*, **2017**, 10, 16	4	8
100	Naturally selected honey bee (Apis mellifera) colonies resistant to Varroa destructor do not groom more intensively. *Journal of Apicultural Research*, **2017**, 56, 354-365	2	18
99	Phengaris (Maculinea) teleius butterflies select host plants close to Myrmica ants for oviposition, but P.□hausithous do not. *Entomologia Experimentalis Et Applicata*, **2017**, 165, 9-18	2.1	2
98	Spatial refuges buffer landscapes against homogenisation and degradation by large herbivore populations and facilitate vegetation heterogeneity. *Koedoe*, **2017**, 59,	1.1	4
97	Prolonged drought results in starvation of African elephant (Loxodonta africana). *Biological Conservation*, **2016**, 203, 89-96	6.2	33
96	Neckband or backpack? Differences in tag design and their effects on GPS/accelerometer tracking results in large waterbirds. *Animal Biotelemetry*, **2016**, 4,	2.8	13
95	Scale-dependent bi-trophic interactions in a semi-arid savanna: how herbivores eliminate benefits of nutrient patchiness to plants. *Oecologia*, **2016**, 181, 1173-85	2.9	3
94	Winners and losers: tropical forest tree seedling survival across a West African forest-savanna transition. *Ecology and Evolution*, **2016**, 6, 3417-29	2.8	20
93	The diversity-disease relationship: evidence for and criticisms of the dilution effect. *Parasitology*, **2016**, 143, 1075-86	2.7	37
92	Optimization of net returns from wildlife consumptive and non-consumptive uses by game reserve management. *Environmental Conservation*, **2016**, 43, 128-139	3.3	2
91	Strong reactive movement response of the medium-sized European hare to elevated predation risk in short vegetation. *Animal Behaviour*, **2016**, 115, 107-114	2.8	22
90	Soil seed bank dynamics under the influence of grazing as alternative explanation for herbaceous vegetation transitions in semi-arid rangelands. *Ecological Modelling*, **2016**, 337, 253-261	3	12
89	Defence against vertebrate herbivores trades off into architectural and low nutrient strategies amongst savanna Fabaceae species. *Oikos*, **2016**, 125, 126-136	4	17
88	Modeling elephant-mediated cascading effects of water point closure **2015**, 25, 402-15		17
87	Dilution versus facilitation: Impact of connectivity on disease risk in metapopulations. *Journal of Theoretical Biology*, **2015**, 376, 66-73	2.3	13
86	Dutch hedgehogsErinaceus europaeusare nowadays mainly found in urban areas, possibly due to the negative Effects of badgersMeles meles. *Wildlife Biology*, **2015**, 21, 51-55	1.7	36
85	An assessment of the terrestrial mammal communities in forests of Central Panama, using camera-trap surveys. *Journal for Nature Conservation*, **2015**, 26, 28-35	2.3	30

84	Modelling the negative effects of landscape fragmentation on habitat selection. *Ecological Informatics*, **2015**, 30, 271-276	4.2	12
83	Phengaris (Maculinea) alcon butterflies deposit their eggs on tall plants with many large buds in the vicinity of Myrmica ants. *Insect Conservation and Diversity*, **2015**, 8, 177-188	3.8	17
82	The importance of seed mass for the tolerance to heat shocks of savanna and forest tree species. *Journal of Vegetation Science*, **2015**, 26, 1102-1111	3.1	28
81	Interaction between Varroa destructor and imidacloprid reduces flight capacity of honeybees. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20151738	4.4	45
80	Deriving Animal Behaviour from High-Frequency GPS: Tracking Cows in Open and Forested Habitat. *PLoS ONE*, **2015**, 10, e0129030	3.7	30
79	Productivity affects the density–body mass relationship of soil fauna communities. *Soil Biology and Biochemistry*, **2014**, 72, 203-211	7.5	10
78	Disturbance–diversity relationships for soil fauna are explained by faunal community biomass in a salt marsh. *Soil Biology and Biochemistry*, **2014**, 78, 30-37	7.5	14
77	Relative growth rate variation of evergreen and deciduous savanna tree species is driven by different traits. *Annals of Botany*, **2014**, 114, 315-24	4.1	30
76	Effect of patches of woody vegetation on the role of fire in tropical grasslands and savannas. *International Journal of Wildland Fire*, **2014**, 23, 410	3.2	6
75	Dilution effect and identity effect by wildlife in the persistence and recurrence of bovine tuberculosis. *Parasitology*, **2014**, 141, 981-7	2.7	9
74	Short-term effect of nutrient availability and rainfall distribution on biomass production and leaf nutrient content of savanna tree species. *PLoS ONE*, **2014**, 9, e92619	3.7	18
73	Influence of host plant phenology and oviposition date on the oviposition pattern and offspring performance of the butterfly Phengaris alcon. *Journal of Insect Conservation*, **2014**, 18, 1115-1122	2.1	5
72	Larger antelopes are sensitive to heat stress throughout all seasons but smaller antelopes only during summer in an African semi-arid environment. *International Journal of Biometeorology*, **2014**, 58, 41-9	3.7	27
71	Tree species from different functional groups respond differently to environmental changes during establishment. *Oecologia*, **2014**, 174, 1345-57	2.9	27
70	Optimization of wildlife management in a large game reserve through waterpoints manipulation: a bio-economic analysis. *Journal of Environmental Management*, **2013**, 114, 352-61	7.9	4
69	Interactive effect of reduced pollen availability and Varroa destructor infestation limits growth and protein content of young honey bees. *Journal of Insect Physiology*, **2013**, 59, 487-93	2.4	34
68	Leaf adaptations of evergreen and deciduous trees of semi-arid and humid savannas on three continents. *Journal of Ecology*, **2013**, 101, 430-440	6	80
67	Understanding spatial differences in African elephant densities and occurrence, a continent-wide analysis. *Biological Conservation*, **2013**, 159, 468-476	6.2	37

66	Dilution effect in bovine tuberculosis: risk factors for regional disease occurrence in Africa. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20130624	4.4	23
65	Deciduous and evergreen trees differ in juvenile biomass allometries because of differences in allocation to root storage. *Annals of Botany*, **2013**, 112, 575-87	4.1	29
64	Species' life-history traits explain interspecific variation in reservoir competence: a possible mechanism underlying the dilution effect. *PLoS ONE*, **2013**, 8, e54341	3.7	56
63	Biomass partitioning and root morphology of savanna trees across a water gradient. *Journal of Ecology*, **2012**, 100, 1113-1121	6	64
62	Contrasting timing of parturition of chital Axis axis and gaur Bos gaurus in tropical South India the role of body mass and seasonal forage quality. *Oikos*, **2012**, 121, 1300-1310	4	12
61	Diet selection of African elephant over time shows changing optimization currency. *Oikos*, **2012**, 121, 2110-2120	4	18
60	Seasonal diet changes in elephant and impala in mopane woodland. *European Journal of Wildlife Research*, **2012**, 58, 279-287	2	27
59	Resource use of specialist butterflies in agricultural landscapes: conservation lessons from the butterfly Phengaris (Maculinea) nausithous. *Journal of Insect Conservation*, **2012**, 16, 921-930	2.1	9
58	Body temperature variation of South African antelopes in two climatically contrasting environments. *Journal of Thermal Biology*, **2012**, 37, 171-178	2.9	11
57	Winter survival of individual honey bees and honey bee colonies depends on level of Varroa destructor infestation. *PLoS ONE*, **2012**, 7, e36285	3.7	96
56	Effect of spectral composition of artificial light on the attraction of moths. *Biological Conservation*, **2011**, 144, 2274-2281	6.2	188
55	A continental analysis of correlations between tree patterns in African savannas and human and environmental variables. *Journal of Arid Environments*, **2011**, 75, 724-733	2.5	9
54	The spatial scaling of habitat selection by African elephants. *Journal of Animal Ecology*, **2011**, 80, 270-81	4.7	69
53	Scale of nutrient patchiness mediates resource partitioning between trees and grasses in a semi-arid savanna. *Journal of Ecology*, **2011**, 99, 1124-1133	6	23
52	Effects of scale and efficiency of rural traffic calming on safety, accessibility and wildlife. *Transportation Research, Part D: Transport and Environment*, **2011**, 16, 486-491	6.4	4
51	Moisture and nutrients determine the distribution and richness of India's large herbivore species assemblage. *Basic and Applied Ecology*, **2011**, 12, 634-642	3.2	12
50	Not only the butterflies: managing ants on road verges to benefit Phengaris (Maculinea) butterflies. *Journal of Insect Conservation*, **2011**, 15, 189-206	2.1	40
49	Increased searching and handling effort in tall swards lead to a Type IV functional response in small grazing herbivores. *Oecologia*, **2011**, 166, 659-69	2.9	27

48	Large herbivores may alter vegetation structure of semi-arid savannas through soil nutrient mediation. *Oecologia*, **2011**, 165, 1095-107	2.9	100
47	Modelling the effect of intersections in linear habitat on spatial distribution and local population density. *International Journal of Geographical Information Science*, **2011**, 25, 367-378	4.1	4
46	Possible causes of decreasing migratory ungulate populations in an East African savannah after restrictions in their seasonal movements. *African Journal of Ecology*, **2010**, 48, 169-179	0.8	23
45	Effects of simulated browsing on growth and leaf chemical properties in Colophospermum mopane saplings. *African Journal of Ecology*, **2010**, 48, 190-196	0.8	28
44	Spatial distribution of lion kills determined by the water dependency of prey species. *Journal of Mammalogy*, **2010**, 91, 1280-1286	1.8	49
43	Spatial autocorrelation and the scaling of species-environment relationships. *Ecology*, **2010**, 91, 2455-65	4.6	103
42	Predation danger can explain changes in timing of migration: the case of the barnacle goose. *PLoS ONE*, **2010**, 5, e11369	3.7	40
41	Not only the butterflies: managing ants on road verges to benefit Phengaris (Maculinea) butterflies **2010**, 171-188		
40	Optimal foraging for multiple resources in several food species. *American Naturalist*, **2009**, 174, 102-10	3.7	21
39	Local positive feedback and the persistence and recovery of fringe Avicennia marina (Forssk.) vierh. mangroves. *Wetlands Ecology and Management*, **2009**, 17, 601-611	2.1	9
38	Density dependence and population dynamics of black rhinos (Diceros bicornis michaeli) in Kenyan rhino sanctuaries. *African Journal of Ecology*, **2009**, 48, 791	0.8	4
37	Water and nutrients alter herbaceous competitive effects on tree seedlings in a semi-arid savanna. *Journal of Ecology*, **2009**, 97, 430-439	6	80
36	What limits the spread of two congeneric butterfly species after their reintroduction: quality or spatial arrangement of habitat?. *Animal Conservation*, **2009**, 12, 540-548	3.2	31
35	Traffic mortality and the role of minor roads. *Journal of Environmental Management*, **2009**, 90, 660-7	7.9	61
34	Modeling the Effect of Traffic Calming on Local Animal Population Persistence. *Ecology and Society*, **2009**, 14,	4.1	24
33	Scale of habitat connectivity and colonization in fragmented nuthatch populations. *Ecography*, **2008**, 23, 614-622	6.5	3
32	Instantaneous intake rate of herbivores as function of forage quality and mass: Effects on facilitative and competitive interactions. *Ecological Modelling*, **2008**, 213, 273-284	3	38
31	Traffic Mortality, Analysis And Mitigation **2008**, 253-272		1

30	Looking for the ants: selection of oviposition sites by two myrmecophilous butterfly species. *Animal Biology*, **2008**, 58, 371-388	0.7	30
29	Soil clay content and fire frequency affect clustering in trees in South African savannas. *Journal of Tropical Ecology*, **2008**, 24, 269-279	1.3	18
28	Herbivores as architects of savannas: inducing and modifying spatial vegetation patterning. *Oikos*, **2008**, 117, 543-554	4	48
27	Assembling a diet from different places **2008**, 129-155		20
26	Structuring herbivore communities: the role of habitat and diet **2008**, 237-262		4
25	Model for rural transportation planning considering simulating mobility and traffic kills in the badger Meles meles. *Ecological Informatics*, **2007**, 2, 73-82	4.2	10
24	Optimisation or satiation, testing diet selection rules in goats. *Small Ruminant Research*, **2007**, 73, 160-168	1.7	23
23	Resilience and restoration of soft-bottom near-shore ecosystems. *Hydrobiologia*, **2007**, 591, 1-4	2.4	3
22	Patch density determines movement patterns and foraging efficiency of large herbivores. *Behavioral Ecology*, **2007**, 18, 1065-1072	2.3	92
21	Stability of wooded patches in a South African nutrient-poor grassland: do nutrients, fire or herbivores limit their expansion?. *Journal of Tropical Ecology*, **2007**, 23, 529-537	1.3	13
20	Interacting effects of landscape context and habitat quality on flower visiting insects in agricultural landscapes. *Basic and Applied Ecology*, **2006**, 7, 201-214	3.2	142
19	Flattened fauna and mitigation: Traffic victims related to road, traffic, vehicle, and species characteristics. *Transportation Research, Part D: Transport and Environment*, **2006**, 11, 264-276	6.4	47
18	RECONCILING METHODOLOGICALLY DIFFERENT BIODIVERSITY ASSESSMENTS **2005**, 15, 1747-1760		16
17	Green Veining: Landscape Determinants of Biodiversity in European Agricultural Landscapes. *Landscape Ecology*, **2005**, 20, 417-439	4.3	52
16	Using traffic flow theory to model traffic mortality in mammals. *Landscape Ecology*, **2005**, 19, 895-907	4.3	12
15	Optimal harvesting in a two-species model under critical depensation: The case of optimal harvesting in semi-arid grazing systems. *Ecological Modelling*, **2004**, 179, 153-161	3	8
14	Using traffic flow theory to model traffic mortality in mammals. *Landscape Ecology*, **2004**, 19, 895-907	4.3	47
13	. *Ecology*, **2003**, 84, 337-350	4.6	489

12	EFFECTS OF FIRE AND HERBIVORY ON THE STABILITY OF SAVANNA ECOSYSTEMS **2003**, 84, 337		2
11	Relationship between vegetation growth rates at the onset of the wet season and soil type in the Sahel of Burkina Faso: implications for resource utilisation at large scales. *Ecological Modelling*, **2002**, 149, 143-152	3	23
10	Fine-scale spatial distribution of plants and resources on a sandy soil in the Sahel. *Plant and Soil*, **2002**, 239, 69-77	4.2	27
9	Spatial heterogeneity and irreversible vegetation change in semiarid grazing systems. *American Naturalist*, **2002**, 159, 209-18	3.7	129
8	Self-organization of vegetation in arid ecosystems. *American Naturalist*, **2002**, 160, 524-30	3.7	509
7	Two strategies for conservation planning in human-dominated landscapes. *Landscape and Urban Planning*, **2002**, 58, 281-295	7.7	24
6	Competing land use in the reserve site selection problem. *Landscape Ecology*, **2000**, 15, 243-256	4.3	36
5	Scale of habitat connectivity and colonization in fragmented nuthatch populations. *Ecography*, **2000**, 23, 614-622	6.5	55
4	Comparing Connectivity in Landscape Networks. *Environment and Planning B: Planning and Design*, **1998**, 25, 849-863		21
3	Effective pollination of greenhouse Galia musk melon (Cucumis melo L. var. reticulatus ser.) by afrotropical stingless bee species. *Journal of Apicultural Research*,1-11	2	0
2	African endemic stingless bees as an efficient alternative pollinator to honey bees in greenhouse cucumber (Cucumis sativus L). *Journal of Apicultural Research*,1-13	2	1
1	AusTraits a curated plant trait database for the Australian flora		1