E Emiel Van Loon

List of Publications by Year
in descending order

83 papers	3,640 citations	136950 32 h-index	144013 57 g-index
83 all docs	83 docs citations	83 times ranked	5558 citing authors

#	Article	IF	Citations
1	Hillslope-storage Boussinesq model for subsurface flow and variable source areas along complex hillslopes: 1. Formulation and characteristic response. Water Resources Research, 2003, 39, .	4.2	233
2	Fit-for-Purpose: Species Distribution Model Performance Depends on Evaluation Criteria â€“ Dutch Hoverflies as a Case Study. PLoS ONE, 2013, 8, e63708.	2.5	207
3	RNCEP: global weather and climate data at your fingertips. Methods in Ecology and Evolution, 2012, 3, 65-70.	5.2	199
4	Botanical richness and endemicity patterns of Borneo derived from species distribution models. Ecography, 2009, 32, 180-192.	4.5	149
5	Impact of Incorrect Model Error Assumptions on the Sequential Assimilation of Remotely Sensed Surface Soil Moisture. Journal of Hydrometeorology, 2006, 7, 421-432.	1.9	132
6	Artificial light at night confounds broadâ€scale habitat use by migrating birds. Ecology Letters, 2018, 21, 356-364.	6.4	132
7	Analytical solutions to a hillslope-storage kinematic wave equation for subsurface flow. Advances in Water Resources, 2002, 25, 637-649.	3.8	123
8	From Sensor Data to Animal Behaviour: An Oystercatcher Example. PLoS ONE, 2012, 7, e37997.	2.5	119
9	Identifying the most productive breeding sites for malaria mosquitoes in The Gambia. Malaria Journal, 2009, 8, 62.	2.3	101
10	BIRD SPECIES AND TRAITS ASSOCIATED WITH LOGGED AND UNLOGGED FOREST IN BORNEO. , 2007, 17, 1184-1197.		97
11	Hillslope-storage Boussinesq model for subsurface flow and variable source areas along complex hillslopes: 2. Intercomparison with a three-dimensional Richards equation model. Water Resources Research, 2003, 39, .	4.2	94
12	Can wind help explain seasonal differences in avian migration speed?. Journal of Avian Biology, 2010, 41, 672-677.	1.2	88
13	Integrating Meteorology into Research on Migration. Integrative and Comparative Biology, 2010, 50, 280-292.	2.0	87
14	Cell Turnover and Detritus Production in Marine Sponges from Tropical and Temperate Benthic Ecosystems. PLoS ONE, 2014, 9, e109486.	2.5	86
15	Automatic identification of bird targets with radar via patterns produced by wing flapping. Journal of the Royal Society Interface, 2008, 5, 1041-1053.	3.4	80
16	Stochastic atmospheric assistance and the use of emergency staging sites by migrants. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1505-1511.	2.6	78
17	Quantifying flow-assistance and implications for movement research. Journal of Theoretical Biology, 2012, 308, 56-67.	1.7	77
18	Sexually distinct foraging strategies in an omnivorous seabird. Marine Biology, 2015, 162, 1417-1428.	1.5	75

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19	Quantifying surfaceâ€area changes of volcanic islands driven by Pleistocene seaâ€level cycles: biogeographical implications for the Macaronesian archipelagos. Journal of Biogeography, 2014, 41, 1242-1254.	3.0	73
20	Flap or soar? How a flight generalist responds to its aerial environment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150395.	4.0	73
21	Is there a connection between weather at departure sites, onset of migration and timing of soaring-bird autumn migration in Israel?. Global Ecology and Biogeography, 2006, 15, 541-552.	5.8	65
22	Individual specialization on fishery discards by lesser black-backed gulls (Larus fuscus). ICES Journal of Marine Science, 2015, 72, 1882-1891.	2.5	57
23	A Comparative Analysis of the Influence of Weather on the Flight Altitudes of Birds. Bulletin of the American Meteorological Society, 2006, 87, 47-62.	3.3	56
24	Analyzing the effect of wind on flight: pitfalls and solutions. Journal of Experimental Biology, 2007, 210, 82-90.	1.7	55
25	Extinctionâ€driven changes in frugivore communities on oceanic islands. Ecography, 2018, 41, 1245-1255.	4.5	53
26	The influence of weather on the flight altitude of nocturnal migrants in midâ€latitudes. Ibis, 2013, 155, 734-749.	1.9	52
27	Eutrophication decreases distance decay of similarity in diatom communities. Freshwater Biology, 2014, 59, 1522-1531.	2.4	52
28	Susceptibility of pollinators to ongoing landscape changes depends on landscape history. Diversity and Distributions, 2015, 21, 1129-1140.	4.1	43
29	Beyond the Last Glacial Maximum: Island endemism is best explained by longâ€lasting archipelago configurations. Global Ecology and Biogeography, 2019, 28, 184-197.	5.8	41
30	Energetic influence on gull flight strategy selection. Journal of Experimental Biology, 2006, 209, 3489-3498.	1.7	38
31	Short distance migrants travel as far as long distance migrants in lesser blackâ€backed gulls Larus fuscus. Journal of Avian Biology, 2017, 48, 49-57.	1.2	38
32	Analysis and visualization of animal movement. Biology Letters, 2012, 8, 6-9.	2.3	37
33	Extracting bird migration information from Câ€band Doppler weather radars. Ibis, 2008, 150, 674-686.	1.9	33
34	Birds flee en mass from New Yearâ€™s Eve fireworks. Behavioral Ecology, 2011, 22, 1173-1177.	2.2	33
35	Improved reconstruction of palaeo-environments through unravelling of preserved vegetation biomarker patterns. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 285, 119-130.	2.3	32
36	Macrophyte loss drives decadal change in benthic invertebrates in peatland drainage ditches. Freshwater Biology, 2014, 59, 114-126.	2.4	31

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37	Geographic changes in the Aegean Sea since the Last Glacial Maximum: Postulating biogeographic effects of sea-level rise on islands. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 471, 108-119.	2.3	30
38	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. Scientific Data, 2018, 5, 180226.	5.3	30
39	Long-term litter input manipulation effects on production and properties of dissolved organic matter in the forest floor of a Norway spruce stand. Plant and Soil, 2012, 355, 407-416.	3.7	29
40	Stacked space-time densities: a geovisualisation approach to explore dynamics of space use over time. GeoInformatica, 2015, 19, 85-115.	2.7	29
41	The <scp>zoon r</scp> package for reproducible and shareable species distribution modelling. Methods in Ecology and Evolution, 2018, 9, 260-268.	5.2	29
42	Sensitivity of LISEM predicted catchment discharge to initial soil moisture content of soil profile. Journal of Hydrology, 2010, 393, 174-185.	5.4	28
43	Avian Information Systems: Developing Web-Based Bird Avoidance Models. Ecology and Society, 2008, 13, .	2.3	27
44	Bird Radar Validation in the Field by Time-Referencing Line-Transect Surveys. PLoS ONE, 2013, 8, e74129.	2.5	27
45	Amazon forest dynamics under changing abiotic conditions in the early Miocene (Colombian) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	23
46	Longâ€distance migrants vary migratory behaviour as much as shortâ€distance migrants: An individualâ€level comparison from a seabird species with diverse migration strategies. Journal of Animal Ecology, 2021, 90, 1058-1070.	2.8	23
47	A global spatially explicit database of changes in island palaeoâ€area and archipelago configuration during the late Quaternary. Global Ecology and Biogeography, 2018, 27, 500-505.	5.8	22
48	Matching hydrologic response to measured effective hydraulic conductivity. Hydrological Processes, 2006, 20, 487-504.	2.6	21
49	Effect of wind, thermal convection, and variation in flight strategies on the daily rhythm and flight paths of migrating raptors at Georgia's Black Sea coast. Journal of Field Ornithology, 2014, 85, 40-55.	0.5	21
50	Ecological correlates of species differences in the Lake Tanganyika crab radiation. Hydrobiologia, 2008, 615, 81-94.	2.0	19
51	Using natural travel paths to infer and compare primate cognition in the wild. IScience, 2021, 24, 102343.	4.1	19
52	Fourteen Annually Repeated Droughts Suppressed Autotrophic Soil Respiration and Resulted in an Ecosystem Change. Ecosystems, 2014, 17, 242-257.	3.4	18
53	In Situ Clock Shift Reveals that the Sun Compass Contributes to Orientation in a Pelagic Seabird. Current Biology, 2018, 28, 275-279.e2.	3.9	16
54	From Birds to Bacteria: Generalised Velocity Jump Processes with Resting States. Bulletin of Mathematical Biology, 2015, 77, 1213-1236.	1.9	15

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55	Modelling spatial scales of water erosion in the West Usambara Mountains of Tanzania. Geomorphology, 2006, 76, 26-42.	2.6	14
56	Comparing Performance and Parameterization of a Oneâ€Dimensional Unsaturated Zone Model across Scales. Vadose Zone Journal, 2007, 6, 638-650.	2.2	14
57	Deriving movement properties and the effect of the environment from the Brownian bridge movement model in monkeys and birds. Movement Ecology, 2015, 3, 18.	2.8	13
58	Resolution of navigational conflict in king penguin chicks. Animal Behaviour, 2014, 93, 221-228.	1.9	12
59	Spiculous skeleton formation in the freshwater spongeEphydatia fluviatilisunder hypergravity conditions. PeerJ, 2019, 6, e6055.	2.0	11
60	Filtering fens: Mechanisms explaining phosphorus-limited hotspots of biodiversity in wetlands adjacent to heavily fertilized areas. Science of the Total Environment, 2014, 481, 129-141.	8.0	10
61	The effect of experienced individuals on navigation by king penguin chick pairs. Animal Behaviour, 2015, 104, 69-78.	1.9	10
62	Connectivity and seasonality cause rapid taxonomic and functional trait succession within an invertebrate community after stream restoration. PLoS ONE, 2018, 13, e0197182.	2.5	10
63	A disaggregating approach to describe overland flow occurrence within a catchment. Journal of Hydrology, 2006, 323, 22-40.	5.4	9
64	Drivers of Vegetation Development, Biomass Production and the Initiation of Peat Formation in a Newly Constructed Wetland. Ecosystems, 2020, 23, 1019-1036.	3.4	9
65	Songbird parents coordinate offspring provisioning at fine spatioâ€temporal scales. Journal of Animal Ecology, 2022, 91, 1316-1326.	2.8	9
66	Identifying scale-dependent models: The case of overland flow at the hillslope scale. Water Resources Research, 2000, 36, 243-254.	4.2	8
67	Linkages between benthic microbial and freshwater insect communities in degraded peatland ditches. Ecological Indicators, 2014, 46, 415-424.	6.3	8
68	The role of emergent vegetation in structuring aquatic insect communities in peatland drainage ditches. Aquatic Ecology, 2014, 48, 267-283.	1.5	7
69	A Small-Scale Analysis of Elevational Species Richness and Beta Diversity Patterns of Arthropods on an Oceanic Island (Terceira, Azores). Insects, 2021, 12, 936.	2.2	7
70	A historical perspective on the effects of trapping and controlling the muskrat (Ondatra) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	3.4	6
71	Balancing food and densityâ€dependence in the spatial distribution of an interferenceâ€prone forager. Oikos, 2017, 126, 1184-1196.	2.7	6
72	Analyzing timeâ€ordered event data with missed observations. Ecology and Evolution, 2017, 7, 7362-7369.	1.9	5

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73	Long-term stabilization of 15N-labeled experimental NH4+ deposition in a temperate forest under high N deposition. Science of the Total Environment, 2021, 768, 144356.	8.0	5
74	Biodiversity Observations Miner: A web application to unlock primary biodiversity data from published literature. Biodiversity Data Journal, 2019, 7, e28737.	0.8	5
75	Visualising Movement: The Seagull. Significance, 2013, 10, 40-42.	0.4	4
76	Decomposition of Standing Litter Biomass in Newly Constructed Wetlands Associated with Direct Effects of Sediment and Water Characteristics and the Composition and Activity of the Decomposer Community Using Phragmites australis as a Single Standard Substrate. Wetlands, 2019, 39, 113-125.	1.5	4
77	Is there a connection between weather at departure sites, onset of migration and timing of soaring-bird autumn migration in Israel?. Global Ecology and Biogeography, 2006, .	5.8	3
78	Advancing Spatio-temporal Analysis of Ecological Data: Examples in R. Lecture Notes in Computer Science, 2008, , 692-707.	1.3	2
79	Library inventory using a RFID wand: contribution of tag and book specific factors on the read rate. Library Hi Tech, 2021, 39, 368-379.	5.1	2
80	A framework to classify error in animal-borne technologies. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	1
81	Temporal patterns in offshore bird abundance during the breeding season at the Dutch North Sea coast. Marine Biology, 2021, 168, 1.	1.5	1
82	A Largeâ€Scale Experiment to Evaluate Control of Invasive Muskrats. Wildlife Society Bulletin, 2020, 44, 314-322.	1.6	0
83	Ecological correlates of species differences in the Lake Tanganyika crab radiation. , 2008, , 81-94.		0