Dmitrii O Logofet

List of Publications by Year
in descending order

42 papers	1,219 citations	516710 16 h-index	377865 34 g-index
44 all docs	44 docs citations	44 times ranked	1343 citing authors

#	Article	IF	Citations
1	Interaction strengths in food webs: issues and opportunities. Journal of Animal Ecology, 2004, 73, 585-598.	2.8	557
2	The mathematics of Markov models: what Markov chains can really predict in forest successions. Ecological Modelling, 2000, 126, 285-298.	2.5	107
3	Selection on stability across ecological scales. Trends in Ecology and Evolution, 2015, 30, 417-425.	8.7	86
4	Stronger-than-Lyapunov notions of matrix stability, or how "flowers" help solve problems in mathematical ecology. Linear Algebra and Its Applications, 2005, 398, 75-100.	0.9	47
5	Convexity in projection matrices: Projection to a calibration problem. Ecological Modelling, 2008, 216, 217-228.	2.5	36
6	Succession in mixed boreal forest of Russia: Markov models and non-Markov effects. Ecological Modelling, 2001, 142, 25-38.	2.5	34
7	Projection matrices in variable environments: λ_1 in theory and practice. Ecological Modelling, 2013, 251, 307-311.	2.5	30
8	Nonnegative matrices as a tool to model population dynamics: Classical models and contemporary expansions. Journal of Mathematical Sciences, 2008, 155, 894-907.	0.4	26
9	Projection matrices revisited: a potential-growth indicator and the merit of indication. Journal of Mathematical Sciences, 2013, 193, 671-686.	0.4	24
10	Markov chain models for forest successions in the Erzgebirge, Germany. Ecological Modelling, 2003, 159, 145-160.	2.5	21
11	Structure and dynamics of a clonal plant population: Classical model results in a non-classic formulation. Ecological Modelling, 2006, 192, 95-106.	2.5	20
12	'Hybrid' optimisation: a heuristic solution to the Markov-chain calibration problem. Ecological Modelling, 2002, 151, 51-61.	2.5	18
13	Leslie model revisited: some generalizations to block structures. Ecological Modelling, 1989, 48, 277-290.	2.5	17
14	Complexity in matrix population models: Polyvariant ontogeny and reproductive uncertainty. Ecological Complexity, 2013, 15, 43-51.	2.9	17
15	Rank-One Corrections of Nonnegative Matrices, With an Application to Matrix Population Models. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 749-764.	1.4	17
16	Adaptation on the ground and beneath: does the local population maximize its λ_1?. Ecological Complexity, 2014, 20, 176-184.	2.9	16
17	Modelling of matter cycle in a mesotrophic bog ecosystem II. Dynamic model and ecological succession. Ecological Modelling, 1984, 21, 259-276.	2.5	14
18	Sign stability in model ecosystems: A complete class of sign-stable patterns. Ecological Modelling, 1982, 16, 173-189.	2.5	12

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19	Calamagrostis model revisited: Matrix calibration as a constraint maximization problem. Ecological Modelling, 2013, 254, 71-79.	2.5	12
20	Averaging the population projection matrices: Heuristics against uncertainty and nonexistence. Ecological Complexity, 2018, 33, 66-74.	2.9	12
21	Modelling of matter cycle in a mesotrophic bog ecosystem I. Linear analysis of carbon environs. Ecological Modelling, 1984, 21, 247-258.	2.5	11
22	Svicobians of the compartment models and DaD-stability of the Svicobians: aggregating `0-dimensional' models of global biogeochemical cycles. Ecological Modelling, 1997, 104, 39-49.	2.5	9
23	Does averaging overestimate or underestimate population growth? It depends. Ecological Modelling, 2019, 411, 108744.	2.5	9
24	The monoculture vs. rotation strategies in forestry: formalization and prediction by means of Markov-chain modelling. Journal of Environmental Management, 2005, 77, 111-121.	7.8	7
25	Bilberry vs. cowberry in a Scots pine boreal forest: Exclusion or coexistence in a post-fire succession?. Ecological Modelling, 2019, 401, 134-143.	2.5	7
26	Averaging and aggregation in ecological models: An attempt at a non-linear approach. Ecological Modelling, 1986, 34, 217-229.	2.5	6
27	Estimating the fitness of a local discrete-structured population: From uncertainty to an exact number. Ecological Modelling, 2016, 329, 112-120.	2.5	6
28	Seed bank as a persistent problem in matrix population models: From uncertainty to certain bounds. Ecological Modelling, 2020, 438, 109284.	2.5	6
29	Aggregation may or may not eliminate reproductive uncertainty. Ecological Modelling, 2017, 363, 187-191.	2.5	5
30	Why are the middle points the most `sensitive' in the sensitivity experiments?. Ecological Modelling, 1997, 104, 303-306.	2.5	4
31	Realistic Choice of Annual Matrices Contracts the Range of λS Estimates. Mathematics, 2020, 8, 2252.	2.2	4
32	The model for human population dynamics as a part of the global biosphere model: Some aspects of modelling in a dialogue regime. Ecological Modelling, 1980, 9, 269-280.	2.5	3
33	Bilberry vs. cowberry in a scots pine boreal forest. II. Alternate modes of prediction. Ecological Modelling, 2019, 405, 43-50.	2.5	3
34	Bilberry vs. cowberry in a Scots pine boreal forest: III. Another forest, another method, and similar conclusions. Ecological Modelling, 2020, 431, 109193.	2.5	3
35	Competition between and within *aspen(populus tremula)* and raspberry *(rubus idaeus)* after clearâ€cutting: Matrix models of structured populations dynamics. Forest Science and Technology, 2007, 3, 68-77.	0.8	2
36	Potential-Growth Indicators Revisited: Higher Generality and Wider Merit of Indication. Mathematics, 2021, 9, 1649.	2.2	2

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37	Finite 2D lattice digraphs as the life cycle graphs of clonal plant species: The reproduction core and reproductive uncertainty. , 2015, , .		1
38	Polyvariant Ontogeny in Plants: When the Second Eigenvalue Plays a Primary Role. STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, 2019, , 111-130.	0.0	1
39	Interference Between Mosses and Trees in the Framework of a Dynamic Model of Carbon and Nitrogen Cycling in a Mesotrophic Bog Ecosystem. Developments in Environmental Modelling, 1988, 12, 55-66.	0.3	1
40	On the algorithmic congruence of a difference model and a differential one. Ecological Modelling, 1981, 12, 297-299.	2.5	0
41	Mathematical ecology: Forecast, assessment and optimization of impacts on natural ecosystems. Annual Review in Automatic Programming, 1985, 12, 114-124.	0.2	0
42	â€œRealistic Choice of Annual Matrices Contracts the Range of Î»S Estimatesâ€•under Reproductive Uncertainty Too. Mathematics, 2021, 9, 3007.	2.2	0