

# Wolf M Mooij

## List of Publications by Year in descending order

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139  
papers

11,748  
citations

36203

51  
h-index

29081

104  
g-index

140  
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140  
docs citations

140  
times ranked

12546  
citing authors

#	ARTICLE	IF	CITATIONS
1	A standard protocol for describing individual-based and agent-based models. <i>Ecological Modelling</i> , 2006, 198, 115-126.	1.2	2,219
2	Pattern-Oriented Modeling of Agent-Based Complex Systems: Lessons from Ecology. <i>Science</i> , 2005, 310, 987-991.	6.0	1,685
3	Beyond the Plankton Ecology Group (PEG) Model: Mechanisms Driving Plankton Succession. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 429-448.	3.8	604
4	Individual-Based Modeling of Ecological and Evolutionary Processes. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 147-168.	3.8	481
5	The impact of climate change on lakes in the Netherlands: a review. <i>Aquatic Ecology</i> , 2005, 39, 381-400.	0.7	281
6	Plankton dynamics under different climatic conditions in space and time. <i>Freshwater Biology</i> , 2013, 58, 463-482.	1.2	259
7	Challenges and opportunities for integrating lake ecosystem modelling approaches. <i>Aquatic Ecology</i> , 2010, 44, 633-667.	0.7	208
8	Experimental Evidence for Spatial Self-Organization and Its Emergent Effects in Mussel Bed Ecosystems. <i>Science</i> , 2008, 322, 739-742.	6.0	201
9	Detritus-Dependent Development of the Microbial Community in an Experimental System: Qualitative Analysis by Denaturing Gradient Gel Electrophoresis. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2478-2484.	1.4	196
10	Inducible defences and the paradox of enrichment. <i>Oikos</i> , 2004, 105, 471-480.	1.2	164
11	Predicting the effect of climate change on temperate shallow lakes with the ecosystem model PCLake. <i>Hydrobiologia</i> , 2007, 584, 443-454.	1.0	134
12	Pattern formation at multiple spatial scales drives the resilience of mussel bed ecosystems. <i>Nature Communications</i> , 2014, 5, 5234.	5.8	127
13	Creating a safe operating space for wetlands in a changing climate. <i>Frontiers in Ecology and the Environment</i> , 2017, 15, 99-107.	1.9	125
14	Estimating the critical phosphorus loading of shallow lakes with the ecosystem model PCLake: Sensitivity, calibration and uncertainty. <i>Ecological Modelling</i> , 2010, 221, 654-665.	1.2	123
15	Tube-dwelling invertebrates: tiny ecosystem engineers have large effects in lake ecosystems. <i>Ecological Monographs</i> , 2015, 85, 333-351.	2.4	122
16	Allelopathic inhibition of phytoplankton by exudates from <i>Stratiotes aloides</i> . <i>Aquatic Botany</i> , 2005, 82, 284-296.	0.8	113
17	Critical phosphorus loading of different types of shallow lakes and the consequences for management estimated with the ecosystem model PCLake. <i>Limnologia</i> , 2008, 38, 203-219.	0.7	113
18	Spatial identification of critical nutrient loads of large shallow lakes: Implications for Lake Taihu (China). <i>Water Research</i> , 2017, 119, 276-287.	5.3	111

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19	Hydrological regulation drives regime shifts: evidence from paleolimnology and ecosystem modeling of a large shallow Chinese lake. <i>Global Change Biology</i> , 2017, 23, 737-754.	4.2	111
20	Modeling lakes and reservoirs in the climate system. <i>Limnology and Oceanography</i> , 2009, 54, 2315-2329.	1.6	101
21	Community stoichiometry in a changing world: combined effects of warming and eutrophication on phytoplankton dynamics. <i>Ecology</i> , 2014, 95, 1485-1495.	1.5	99
22	Exploring, exploiting and evolving diversity of aquatic ecosystem models: a community perspective. <i>Aquatic Ecology</i> , 2015, 49, 513-548.	0.7	97
23	Response of Submerged Macrophyte Communities to External and Internal Restoration Measures in North Temperate Shallow Lakes. <i>Frontiers in Plant Science</i> , 2018, 9, 194.	1.7	97
24	Alternative stable states in large shallow lakes?. <i>Journal of Great Lakes Research</i> , 2014, 40, 813-826.	0.8	93
25	GLOBIO-Aquatic, a global model of human impact on the biodiversity of inland aquatic ecosystems. <i>Environmental Science and Policy</i> , 2015, 48, 99-114.	2.4	93
26	Towards a global model for wetlands ecosystem services. <i>Current Opinion in Environmental Sustainability</i> , 2019, 36, 11-19.	3.1	93
27	FUZZY MODELING OF CYANOBACTERIAL SURFACE WATERBLOOMS: VALIDATION WITH NOAA-AVHRR SATELLITE IMAGES. , 2003, 13, 1456-1472.		92
28	Chytrid infections and diatom spring blooms: paradoxical effects of climate warming on fungal epidemics in lakes. <i>Freshwater Biology</i> , 2011, 56, 754-766.	1.2	92
29	A community-based framework for aquatic ecosystem models. <i>Hydrobiologia</i> , 2012, 683, 25-34.	1.0	87
30	INDUCIBLE DEFENSES AND TROPHIC STRUCTURE. <i>Ecology</i> , 2004, 85, 2783-2794.	1.5	86
31	Food-web stability signals critical transitions in temperate shallow lakes. <i>Nature Communications</i> , 2015, 6, 7727.	5.8	86
32	Search paths of swans foraging on spatially autocorrelated tubers. <i>Journal of Animal Ecology</i> , 2002, 71, 451-462.	1.3	84
33	Climate-induced shifts in an experimental phytoplankton community: a mechanistic approach. <i>Hydrobiologia</i> , 2007, 584, 403-413.	1.0	81
34	Plant functional types define magnitude of drought response in peatland CO <sub>2</sub> exchange. <i>Ecology</i> , 2014, 95, 123-131.	1.5	80
35	Advancing projections of phytoplankton responses to climate change through ensemble modelling. <i>Environmental Modelling and Software</i> , 2014, 61, 371-379.	1.9	78
36	The Resilience and Resistance of an Ecosystem to a Collapse of Diversity. <i>PLoS ONE</i> , 2012, 7, e46135.	1.1	75

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37	Allelopathic growth inhibition and colony formation of the green alga <i>Scenedesmus obliquus</i> by the aquatic macrophyte <i>Stratiotes aloides</i> . <i>Aquatic Ecology</i> , 2005, 39, 11-21.	0.7	68
38	Can overwintering versus diapausing strategy in <i>Daphnia</i> determine matchâ€“mismatch events in zooplanktonâ€“algae interactions?. <i>Oecologia</i> , 2007, 150, 682-698.	0.9	67
39	Infochemicals structure marine, terrestrial and freshwater food webs: Implications for ecological informatics. <i>Ecological Informatics</i> , 2006, 1, 23-32.	2.3	66
40	Mowing Submerged Macrophytes in Shallow Lakes with Alternative Stable States: Battling the Good Guys?. <i>Environmental Management</i> , 2017, 59, 619-634.	1.2	64
41	Coupled human and natural system dynamics as key to the sustainability of Lake Victoria&#8217;s ecosystem services. <i>Ecology and Society</i> , 2014, 19, .	1.0	62
42	Does "supersaturated coexistence" resolve the "paradox of the plankton"?. <i>Ecology Letters</i> , 2001, 4, 404-407.	3.0	61
43	The impact of climate warming on water temperature, timing of hatching and young-of-the-year growth of fish in shallow lakes in the Netherlands. <i>Journal of Sea Research</i> , 2008, 60, 32-43.	0.6	61
44	Growth Rate of 0+ Fish in Relation to Temperature, Body Size, and Food in Shallow Eutrophic Lake Tjeukemeer. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1994, 51, 516-526.	0.7	58
45	How to model algal blooms in any lake on earth. <i>Current Opinion in Environmental Sustainability</i> , 2019, 36, 1-10.	3.1	57
46	Effects of climate and nutrient load on the water quality of shallow lakes assessed through ensemble runs by PCLake. <i>Ecological Applications</i> , 2014, 24, 1926-1944.	1.8	55
47	Seasonal patterns in the mortality of <i>Daphnia</i> species in a shallow lake. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1996, 53, 18-28.	0.7	54
48	Photoinhibition and the assembly of lightâ€“limited phytoplankton communities. <i>Oikos</i> , 2011, 120, 359-368.	1.2	54
49	From inducible defences to population dynamics: modelling refuge use and life history changes in <i>Daphnia</i> . <i>Oikos</i> , 2002, 99, 386-396.	1.2	53
50	Linking species- and ecosystem-level impacts of climate change in lakes with a complex and a minimal model. <i>Ecological Modelling</i> , 2009, 220, 3011-3020.	1.2	53
51	Collapse and reorganization of a food web of Mwanza Gulf, Lake Victoria. <i>Ecological Applications</i> , 2012, 22, 229-239.	1.8	53
52	Seasonal variation in the interactions between piscivorous fish, planktivorous fish and zooplankton in a shallow eutrophic lake. <i>Hydrobiologia</i> , 1990, 207, 279-286.	1.0	52
53	TRADE-OFFS IN DAPHNIA HABITAT SELECTION. <i>Ecology</i> , 2004, 85, 2027-2036.	1.5	51
54	Vertical stratification of physical, chemical and biological components in two saline lakes Shira and Shunet (South Siberia, Russia). <i>Aquatic Ecology</i> , 2010, 44, 619-632.	0.7	51

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55	The Effect of Atmospheric Carbon Dioxide Elevation on Plant Growth in Freshwater Ecosystems. <i>Ecosystems</i> , 2004, 7, 63-74.	1.6	50
56	FABM-PCLake – linking aquatic ecology with hydrodynamics. <i>Geoscientific Model Development</i> , 2016, 9, 2271-2278.	1.3	49
57	Competition for Light and Nutrients in Layered Communities of Aquatic Plants. <i>American Naturalist</i> , 2015, 186, 72-83.	1.0	47
58	Towards restoring urban waters: understanding the main pressures. <i>Current Opinion in Environmental Sustainability</i> , 2019, 36, 49-58.	3.1	47
59	INDUCED DEFENSES IN HERBIVORES AND PLANTS DIFFERENTIALLY MODULATE A TROPHIC CASCADE. <i>Ecology</i> , 2007, 88, 2474-2481.	1.5	46
60	PCLake+: A process-based ecological model to assess the trophic state of stratified and non-stratified freshwater lakes worldwide. <i>Ecological Modelling</i> , 2019, 396, 23-32.	1.2	46
61	Extending one-dimensional models for deep lakes to simulate the impact of submerged macrophytes on water quality. <i>Environmental Modelling and Software</i> , 2014, 61, 410-423.	1.9	45
62	Success of lake restoration depends on spatial aspects of nutrient loading and hydrology. <i>Science of the Total Environment</i> , 2019, 679, 248-259.	3.9	45
63	Growth of 0+ Roach ( <i>Rutilus rutilus</i> ) in Relation to Temperature and Size in a Shallow Eutrophic Lake: Comparison of Field and Laboratory Observations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1990, 47, 960-967.	0.7	43
64	Adaptation of the Fungal Parasite <i>Zygorhizidium planktonicum</i> During 200 Generations of Growth on Homogeneous and Heterogeneous Populations of Its Host, the Diatom <i>Asterionella formosa</i> . <i>Journal of Eukaryotic Microbiology</i> , 2008, 55, 69-74.	0.8	43
65	An object-oriented simulation framework for individual-based simulations (OSIRIS): Daphnia population dynamics as an example. <i>Ecological Modelling</i> , 1996, 93, 139-153.	1.2	42
66	Exploring the effect of drought extent and interval on the Florida snail kite: interplay between spatial and temporal scales. <i>Ecological Modelling</i> , 2002, 149, 25-39.	1.2	41
67	An Integrated Coral Reef Ecosystem Model to Support Resource Management under a Changing Climate. <i>PLoS ONE</i> , 2015, 10, e0144165.	1.1	37
68	UNCERTAINTY IN SPATIALLY EXPLICIT ANIMAL DISPERSAL MODELS. , 2003, 13, 794-805.		36
69	Climate Change Will Make Recovery from Eutrophication More Difficult in Shallow Danish Lake SÅbygaard. <i>Water (Switzerland)</i> , 2016, 8, 459.	1.2	36
70	Estimation of the long-term nutrient budget and thresholds of regime shift for a large shallow lake in China. <i>Ecological Indicators</i> , 2015, 52, 231-244.	2.6	35
71	Differences in the exploitation of bream in three shallow lake systems and their relation to water quality. <i>Freshwater Biology</i> , 2002, 47, 2435-2442.	1.2	34
72	Variation in abundance and survival of fish larvae in shallow eutrophic lake Tjeukemeer. <i>Environmental Biology of Fishes</i> , 1996, 46, 265-279.	0.4	33

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73	How models can support ecosystem-based management of coral reefs. <i>Progress in Oceanography</i> , 2015, 138, 559-570.	1.5	33
74	Integrated modelling and management of water resources: the ecosystem perspective on the nexus approach. <i>Current Opinion in Environmental Sustainability</i> , 2019, 40, 14-20.	3.1	33
75	Error Propagation in Spatially Explicit Population Models: a Reassessment. <i>Conservation Biology</i> , 1999, 13, 930-933.	2.4	32
76	Changes in food web structure and ecosystem functioning of a large, shallow Chinese lake during the 1950s, 1980s and 2000s. <i>Ecological Modelling</i> , 2016, 319, 31-41.	1.2	32
77	Multimedia fate modeling of perfluorooctanoic acid (PFOA) and perfluorooctane sulphonate (PFOS) in the shallow lake Chaohu, China. <i>Environmental Pollution</i> , 2018, 237, 339-347.	3.7	32
78	Matching scope, purpose and uses of planetary boundaries science. <i>Environmental Research Letters</i> , 2019, 14, 073005.	2.2	32
79	Serving many at once: How a database approach can create unity in dynamical ecosystem modelling. <i>Environmental Modelling and Software</i> , 2014, 61, 266-273.	1.9	31
80	Integrated ecological and chemical food web accumulation modeling explains PAH temporal trends during regime shifts in a shallow lake. <i>Water Research</i> , 2017, 119, 73-82.	5.3	29
81	Analysis and Comparison of Fish Growth from Small Samples of Length-at-Age Data: Detection of Sexual Dimorphism in Eurasian Perch as an Example. <i>Transactions of the American Fisheries Society</i> , 1999, 128, 483-490.	0.6	28
82	Energetic costs, underlying resource allocation patterns, and adaptive value of predator-induced life history shifts. <i>Oikos</i> , 2008, 117, 273-285.	1.2	28
83	Inducible defenses and rotifer food chain dynamics. <i>Hydrobiologia</i> , 2007, 593, 103-110.	1.0	26
84	Alternative states and population crashes in a resource-susceptible-infected model for planktonic parasites and hosts. <i>Freshwater Biology</i> , 2013, 58, 538-551.	1.2	26
85	A quantitative test of the size efficiency hypothesis by means of a physiologically structured model. <i>Oikos</i> , 2005, 110, 43-54.	1.2	24
86	Linking herbivore-induced defences to population dynamics. <i>Freshwater Biology</i> , 2006, 51, 424-434.	1.2	24
87	A perspective on water quality in connected systems: modelling feedback between upstream and downstream transport and local ecological processes. <i>Current Opinion in Environmental Sustainability</i> , 2019, 40, 21-29.	3.1	24
88	Inducible defenses, competition and shared predation in planktonic food chains. <i>Oecologia</i> , 2008, 157, 697-705.	0.9	23
89	GENOTYPE-BY-TEMPERATURE INTERACTIONS MAY HELP TO MAINTAIN CLONAL DIVERSITY IN <i>ASTERIONELLA FORMOSA</i> (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 2012, 48, 1197-1208.	1.0	23
90	Modeling water quality in the Anthropocene: directions for the next-generation aquatic ecosystem models. <i>Current Opinion in Environmental Sustainability</i> , 2019, 36, 85-95.	3.1	23

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91	Effects of infochemicals released by gape-limited fish on life history traits of Daphnia: a maladaptive response?. <i>Journal of Plankton Research</i> , 2004, 26, 535-543.	0.8	22
92	The Contribution of Marsh Zones to Water Quality in Dutch Shallow Lakes: A Modeling Study. <i>Environmental Management</i> , 2008, 42, 1002-1016.	1.2	22
93	Explaining Bacterial Dispersion on Leaf Surfaces with an Individual-Based Model (PHYLLOSIM). <i>PLoS ONE</i> , 2013, 8, e75633.	1.1	22
94	The impact of bird herbivory on macrophytes and the resilience of the clear-water state in shallow lakes: a model study. <i>Hydrobiologia</i> , 2016, 777, 197-207.	1.0	21
95	The use of a flexible patch leaving rule under exploitative competition: a field test with swans. <i>Oikos</i> , 2006, 112, 342-352.	1.2	20
96	Infochemical-mediated trophic interactions between the rotifer <i>Brachionus calyciflorus</i> and its food algae. <i>Limnology and Oceanography</i> , 2007, 52, 2109-2119.	1.6	20
97	The power of simulating experiments. <i>Ecological Modelling</i> , 2009, 220, 2594-2597.	1.2	20
98	Advantages of concurrent use of multiple software frameworks in water quality modelling using a database approach. <i>Fundamental and Applied Limnology</i> , 2015, 186, 5-20.	0.4	20
99	A key to the identification of larval bream, <i>Abramis brama</i> , white bream, <i>Blicca bjoerkna</i> , and roach, <i>Rutilus rutilus</i> . <i>Journal of Fish Biology</i> , 1989, 34, 111-118.	0.7	19
100	Algal defenses, population stability, and the risk of herbivore extinctions: a chemostat model and experiment. <i>Ecological Research</i> , 2009, 24, 1145-1153.	0.7	18
101	Alternative stable states and alternative endstates of community assembly through intra- and interspecific positive and negative interactions. <i>Theoretical Population Biology</i> , 2014, 96, 8-18.	0.5	18
102	Enhanced Input of Terrestrial Particulate Organic Matter Reduces the Resilience of the Clear-Water State of Shallow Lakes: A Model Study. <i>Ecosystems</i> , 2014, 17, 616-626.	1.6	17
103	Was Lates Late? A Null Model for the Nile Perch Boom in Lake Victoria. <i>PLoS ONE</i> , 2013, 8, e76847.	1.1	17
104	A general one-dimensional vertical ecosystem model of Lake Shira (Russia, Khakasia): description, parametrization and analysis. <i>Aquatic Ecology</i> , 2010, 44, 585-618.	0.7	16
105	A Comparison of Three Approaches to Predict Phytoplankton Biomass in Gonghu Bay of Lake Taihu. <i>Journal of Environmental Informatics</i> , 2014, 24, 39-51.	6.0	15
106	A one-dimensional model of vertical stratification of Lake Shira focussed on winter conditions and ice cover. <i>Aquatic Ecology</i> , 2010, 44, 571-584.	0.7	14
107	Testing the Paradox of Enrichment along a Land Use Gradient in a Multitrophic Aboveground and Belowground Community. <i>PLoS ONE</i> , 2012, 7, e49034.	1.1	14
108	Plankton dynamics under different climate conditions in tropical freshwater systems (a reply to the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	14

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109	Will legal international rhino horn trade save wild rhino populations?. <i>Global Ecology and Conservation</i> , 2020, 23, e01145.	1.0	14
110	Evaluating the effect of salinity on a simulated American crocodile ( <i>Crocodylus acutus</i> ) population with applications to conservation and Everglades restoration. <i>Ecological Modelling</i> , 2004, 180, 371-394.	1.2	13
111	Management of Laguna Alalay: a case study of lake restoration in Andean valleys in Bolivia. <i>Aquatic Ecology</i> , 2007, 41, 621-630.	0.7	13
112	Quantifying the impact of above- and belowground higher trophic levels on plant and herbivore performance by modeling. <i>Oikos</i> , 2009, 118, 981-990.	1.2	13
113	Size-selective predation and predator-induced life-history shifts alter the outcome of competition between planktonic grazers. <i>Functional Ecology</i> , 2011, 25, 199-208.	1.7	13
114	Numerical modeling of vertical stratification of Lake Shira in summer. <i>Aquatic Ecology</i> , 2010, 44, 561-570.	0.7	12
115	Integrating three lake models into a Phytoplankton Prediction System for Lake Taihu (Taihu PPS) with Python. <i>Journal of Hydroinformatics</i> , 2012, 14, 523-534.	1.1	12
116	Exploring How Cyanobacterial Traits Affect Nutrient Loading Thresholds in Shallow Lakes: A Modelling Approach. <i>Water (Switzerland)</i> , 2020, 12, 2467.	1.2	12
117	How to measure top-down vs bottom-up effects: a new population metric and its calibration on <i>Daphnia</i> . <i>Oikos</i> , 2013, 122, 1177-1186.	1.2	11
118	A Generically Parameterized model of Lake eutrophication (GPLake) that links field-, lab- and model-based knowledge. <i>Science of the Total Environment</i> , 2019, 695, 133887.	3.9	11
119	Formation of year-class strength in the bream population in the shallow eutrophic Lake Tjeukemeer. <i>Journal of Fish Biology</i> , 1996, 48, 30-39.	0.7	10
120	Effects of resources and predation on the predictability of community composition. <i>Oikos</i> , 2009, 118, 1044-1052.	1.2	10
121	Effects of resources and mortality on the growth and reproduction of Nile perch in Lake Victoria. <i>Freshwater Biology</i> , 2013, 58, 828-840.	1.2	10
122	How Regime Shifts in Connected Aquatic Ecosystems Are Affected by the Typical Downstream Increase of Water Flow. <i>Ecosystems</i> , 2017, 20, 733-744.	1.6	10
123	Modelling induced bank filtration effects on freshwater ecosystems to ensure sustainable drinking water production. <i>Water Research</i> , 2019, 157, 19-29.	5.3	10
124	Exploring desirable nature futures for Nationaal Park Hollandse Duinen. <i>Ecosystems and People</i> , 2022, 18, 329-347.	1.3	10
125	Smart Nutrient Retention Networks: a novel approach for nutrient conservation through water quality management. <i>Inland Waters</i> , 2022, 12, 138-153.	1.1	9
126	Nitrogen fixation does not axiomatically lead to phosphorus limitation in aquatic ecosystems. <i>Oikos</i> , 2019, 128, 563-570.	1.2	7



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127	INDUCIBLE DEFENSES IN FOOD WEBS. , 2005, , 114-127.		5
128	Temperature effects on egg and larval development rate in European smelt, <i>Osmerus eperlanus</i> , experiments and a 50% year hindcast. Journal of Fish Biology, 2020, 96, 1422-1433.	0.7	4
129	Climate-induced shifts in an experimental phytoplankton community: a mechanistic approach. , 2007, , 403-413.		4
130	Flipping Lakes: Explaining concepts of catchment-scale water management through a serious game. Limnology and Oceanography: Methods, 2021, 19, 443-456.	1.0	3
131	Exploring the Temporal Effects of Seasonal Water Availability on the Snail Kite of Florida. , 2007, , 155-173.		2
132	Feedback Effects Between the Food Chain and Induced Defense Strategies. , 2007, , 213-235.		2
133	Statistical analysis of the somatic growth rate of 0-252 fish in relation to temperature under natural conditions. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 451-458.	0.7	2
134	Bridging Theories for Ecosystem Stability Through Structural Sensitivity Analysis of Ecological Models in Equilibrium. Acta Biotheoretica, 2022, 70, .	0.7	2
135	Preface to the Siberian lakes special issue. Aquatic Ecology, 2010, 44, 481-483.	0.7	1
136	Assembling the pieces of Lake Victoria's many food webs: Reply to Kolding. , 2013, 23, 671-675.		1
137	Modelling the spatial dynamics of Maui dolphins using individual-based models. Ecological Modelling, 2019, 402, 59-65.	1.2	1
138	The Importance of Spatial Scale in the Modeling of Aquatic Ecosystems. , 2003, , 383-400.		1
139	Importance of Trait-Related Flexibility for Food-Web Dynamics and the Maintenance of Biodiversity. , 0, , 146-163.		0