

# Daryl L Nielsen

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

2,486  
citations

257450

24  
h-index

206112

48  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2743  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of increasing salinity on freshwater ecosystems in Australia. Australian Journal of Botany, 2003, 51, 655.	0.6	332
2	Drought and aquatic community resilience: the role of eggs and seeds in sediments of temporary wetlands. Freshwater Biology, 2003, 48, 1207-1218.	2.4	281
3	Ordination and significance testing of microbial community composition derived from terminal restriction fragment length polymorphisms: application of multivariate statistics. Antonie Van Leeuwenhoek, 2004, 86, 339-347.	1.7	239
4	Regime shifts, thresholds and multiple stable states in freshwater ecosystems; a critical appraisal of the evidence. Science of the Total Environment, 2015, 534, 122-130.	8.0	146
5	Changes in biotic communities developing from freshwater wetland sediments under experimental salinity and water regimes. Freshwater Biology, 2005, 50, 1376-1390.	2.4	123
6	Modified water regime and salinity as a consequence of climate change: prospects for wetlands of Southern Australia. Climatic Change, 2009, 95, 523-533.	3.6	111
7	The effects of salinity on aquatic plant germination and zooplankton hatching from two wetland sediments. Freshwater Biology, 2003, 48, 2214-2223.	2.4	109
8	Improving Ecological Response Monitoring of Environmental Flows. Environmental Management, 2015, 55, 991-1005.	2.7	65
9	Floodplain biodiversity: why are there so many species?. Hydrobiologia, 1998, 387/387, 39-46.	2.0	62
10	Empirical evidence linking increased hydrologic stability with decreased biotic diversity within wetlands. Hydrobiologia, 2013, 708, 81-96.	2.0	60
11	Impact of water regime and fish predation on zooplankton resting egg production and emergence. Journal of Plankton Research, 2000, 22, 433-446.	1.8	40
12	Flood-mediated changes in aquatic macrophyte community structure. Marine and Freshwater Research, 1997, 48, 153.	1.3	39
13	The impact of salinity pulses on the emergence of plant and zooplankton from wetland seed and egg banks. Freshwater Biology, 2007, 52, 784-795.	2.4	38
14	Temporal variations in organic carbon utilization by consumers in a lowland river. River Research and Applications, 2012, 28, 513-528.	1.7	36
15	Does flooding affect spatiotemporal variation of fish assemblages in temperate floodplain wetlands?. Freshwater Biology, 2012, 57, 2230-2246.	2.4	35
16	Title is missing!. Hydrobiologia, 2001, 446/447, 203-211.	2.0	30
17	Juvenile fish response to wetland inundation: how antecedent conditions can inform environmental flow policies for native fish. Journal of Applied Ecology, 2014, 51, 1613-1621.	4.0	30
18	From fresh to saline: a comparison of zooplankton and plant communities developing under a gradient of salinity with communities developing under constant salinity levels. Marine and Freshwater Research, 2008, 59, 549.	1.3	29

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19	Associations between the plant communities of floodplain wetlands, water regime and wetland type. <i>River Research and Applications</i> , 2010, 26, 866-876.	1.7	29
20	Assessment of environmental flow scenarios using stateâ€andâ€transition models. <i>Freshwater Biology</i> , 2018, 63, 804-816.	2.4	29
21	Influence of substratum on the variability of benthic biofilm stable isotope signatures: implications for energy flow to a primary consumer. <i>Hydrobiologia</i> , 2011, 664, 135-146.	2.0	28
22	Response of wetland plant communities to inundation within floodplain landscapes. <i>Ecological Management and Restoration</i> , 2008, 9, 187-195.	1.5	25
23	A Bayesian Belief Network Decision Support Tool for Watering Wetlands to Maximise Native Fish Outcomes. <i>Wetlands</i> , 2012, 32, 277-287.	1.5	25
24	The influence of seasonality and duration of flooding on zooplankton in experimental billabongs. <i>River Research and Applications</i> , 2002, 18, 227-237.	1.7	24
25	Microfaunal communities in three lowland rivers under differing flow regimes. <i>Hydrobiologia</i> , 2005, 543, 101-111.	2.0	24
26	The influence of planktivorous fish on zooplankton communities in riverine slackwaters. <i>Freshwater Biology</i> , 2010, 55, 360-374.	2.4	24
27	Resting egg banks can facilitate recovery of zooplankton communities after extended exposure to saline conditions. <i>Freshwater Biology</i> , 2012, 57, 1306-1314.	2.4	24
28	Zooplankton dynamics in response to the transition from drought to flooding in four Murrayâ€Darling Basin rivers affected by differing levels of flow regulation. <i>Hydrobiologia</i> , 2013, 702, 45-62.	2.0	24
29	Community structure and composition of microfaunal egg bank assemblages in riverine and floodplain sediments. <i>Hydrobiologia</i> , 2011, 661, 211-221.	2.0	23
30	Optimising environmental watering of floodplain wetlands for fish. <i>Freshwater Biology</i> , 2014, 59, 2024-2037.	2.4	23
31	Ordination and significance testing of microbial community composition derived from terminal restriction fragment length polymorphisms: application of multivariate statistics. <i>Antonie Van Leeuwenhoek</i> , 2005, 86, 339-347.	1.7	20
32	The value of plant functional groups in demonstrating and communicating vegetation responses to environmental flows. <i>Freshwater Biology</i> , 2014, 59, 858-869.	2.4	19
33	River metabolism and carbon dynamics in response to flooding in a lowland river. <i>Marine and Freshwater Research</i> , 2015, 66, 919.	1.3	18
34	Composition of cladoceran dormant stages in intermittent ponds with different hydroperiod lengths. <i>Ecological Research</i> , 2017, 32, 921-930.	1.5	17
35	Mixture of commercial herbicides based on 2,4-D and glyphosate mixture can suppress the emergence of zooplankton from sediments. <i>Chemosphere</i> , 2018, 203, 151-159.	8.2	17
36	Hypoxic blackwater events suppress the emergence of zooplankton from wetland sediments. <i>Aquatic Sciences</i> , 2015, 77, 221-230.	1.5	15

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37	Floodplain biodiversity: why are there so many species?. , 1998, , 39-46.		15
38	Ecology versus taxonomy: is there a middle ground?. <i>Hydrobiologia</i> , 1998, 387/387, 451-457.	2.0	14
39	Riverine habitat heterogeneity: the role of slackwaters in providing hydrologic buffers for benthic microfauna. <i>Hydrobiologia</i> , 2010, 638, 181-191.	2.0	14
40	The influence of leaf litter on zooplankton in floodplain wetlands: changes resulting from river regulation. <i>Freshwater Biology</i> , 2011, 56, 2432-2447.	2.4	14
41	Model development of a Bayesian Belief Network for managing inundation events for wetland fish. <i>Environmental Modelling and Software</i> , 2013, 41, 1-14.	4.5	14
42	Managed floodplain inundation maintains ecological function in lowland rivers. <i>Science of the Total Environment</i> , 2020, 727, 138469.	8.0	14
43	Climate change and dam development: Effects on wetland connectivity and ecological habitat in tropical wetlands. <i>Ecohydrology</i> , 2020, 13, e2228.	2.4	14
44	Effects of hydrological variation and planktivorous competition on macroinvertebrate community structure in experimental billabongs. <i>Freshwater Biology</i> , 1999, 42, 427-444.	2.4	13
45	Connectivity, not short-range endemism, characterises the groundwater biota of a northern Australian karst system. <i>Science of the Total Environment</i> , 2021, 796, 148955.	8.0	13
46	The influence of a planktivorous fish on zooplankton assemblages in experimental billabongs. <i>Hydrobiologia</i> , 2000, 434, 1-9.	2.0	12
47	Microinvertebrate dynamics in riverine slackwater and midâ€channel habitats in relation to physicoâ€chemical parameters and food availability. <i>River Research and Applications</i> , 2010, 26, 279-296.	1.7	12
48	Seed bank dynamics in wetland complexes associated with a lowland river. <i>Aquatic Sciences</i> , 2018, 80, 1.	1.5	11
49	Carbon and nutrient subsidies to a lowland river following floodplain inundation. <i>Marine and Freshwater Research</i> , 2016, 67, 1302.	1.3	11
50	The response of epibenthic rotifers and microcrustacean communities to flow manipulations in lowland rivers. <i>Hydrobiologia</i> , 2008, 603, 117-128.	2.0	10
51	Assessing the potential for biotic communities to recolonise freshwater wetlands affected by sulfidic sediments. <i>Freshwater Biology</i> , 2011, 56, 2299-2315.	2.4	10
52	Effects of spatial scale and habitat on the diversity of diapausing wetland invertebrates. <i>Aquatic Biology</i> , 2016, 25, 173-181.	1.4	9
53	Return of the lignum dead: Resilience of an arid floodplain shrub to drought. <i>Journal of Arid Environments</i> , 2017, 138, 9-17.	2.4	8
54	Evaluation of a new technique for characterizing resting stage zooplankton assemblages in riverine slackwater habitats and floodplain wetlands. <i>Journal of Plankton Research</i> , 2008, 30, 415-422.	1.8	7

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55	High sediment temperatures influence the emergence of dormant aquatic biota. <i>Marine and Freshwater Research</i> , 2015, 66, 1138.	1.3	7
56	The influence of planktivorous fish on zooplankton resting-stage communities in riverine slackwater regions. <i>Journal of Plankton Research</i> , 2010, 32, 411-421.	1.8	6
57	Evaluation of <i>Pseudoraphis spinescens</i> (Poaceae) seed bank from Barmah Forest floodplain. <i>Australian Journal of Botany</i> , 2016, 64, 669.	0.6	5
58	Spatial variability of aquatic plant and microfaunal seed and egg bank communities within a forested floodplain system of a temperate Australian river. <i>Aquatic Sciences</i> , 2017, 79, 515-527.	1.5	5
59	Resolution of the spatial variability in sediment composition within and between water-storage reservoirs using non-parametric statistical techniques. <i>Water Research</i> , 1998, 32, 826-830.	11.3	4
60	Hatching from the sediment egg-bank, or aerial dispersing? – the use of mesocosms in assessing rotifer biodiversity. , 2001, , 203-211.		4
61	Assessing the potential for using wetlands as intermediary storages to conjunctively maintain ecological values and support agricultural demands. <i>Journal of Environmental Management</i> , 2012, 107, 19-27.	7.8	4
62	Managing wetlands as off-river storages: impacts on zooplankton communities. <i>Hydrobiologia</i> , 2013, 701, 51-63.	2.0	4
63	The impact of increased temperatures on germination patterns of semi-aquatic plants. <i>Seed Science Research</i> , 2019, 29, 204-209.	1.7	4
64	The influence of flood frequency and duration on microcrustacean egg bank composition in dryland river floodplain sediments. <i>Freshwater Biology</i> , 2021, 66, 1382-1394.	2.4	4
65	Morphological, physiological and behavioural response patterns of carp gudgeon <i>Hypseleotris</i> spp. to food deprivation: implications for assessing health. <i>Journal of Fish Biology</i> , 2012, 80, 218-224.	1.6	3
66	The belief index: An empirical measure for evaluating outcomes in Bayesian belief network modelling. <i>Ecological Modelling</i> , 2012, 228, 123-129.	2.5	3
67	Subfossil chironomid head capsules reveal assemblage differences in permanent and temporary wetlands of south-eastern Australia. <i>Hydrobiologia</i> , 2018, 809, 91-110.	2.0	3
68	Cladocera resting egg banks in temporary and permanent wetlands. <i>Journal of Limnology</i> , 2021, 80, .	1.1	1
69	Do temperature and water depth influence microcrustacean hatching responses from floodplain wetland sediments?. <i>Marine and Freshwater Research</i> , 2021, , .	1.3	1