

# Simon Creer

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

7,470  
citations

136940

32  
h-index

76898

74  
g-index

86  
all docs

86  
docs citations

86  
times ranked

8289  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental <sc>DNA</sc> metabarcoding: Transforming how we survey animal and plant communities. <i>Molecular Ecology</i> , 2017, 26, 5872-5895.	3.9	1,210
2	Environmental DNA for wildlife biology and biodiversity monitoring. <i>Trends in Ecology and Evolution</i> , 2014, 29, 358-367.	8.7	920
3	Sequencing our way towards understanding global eukaryotic biodiversity. <i>Trends in Ecology and Evolution</i> , 2012, 27, 233-243.	8.7	395
4	Second-generation environmental sequencing unmasks marine metazoan biodiversity. <i>Nature Communications</i> , 2010, 1, 98.	12.8	321
5	The ecologist's field guide to sequence-based identification of biodiversity. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1008-1018.	5.2	316
6	Ultrasequencing of the meiofaunal biosphere: practice, pitfalls and promises. <i>Molecular Ecology</i> , 2010, 19, 4-20.	3.9	309
7	The biogeography of the atlantic salmon ( <i>Salmo salar</i> ) gut microbiome. <i>ISME Journal</i> , 2016, 10, 1280-1284.	9.8	301
8	DNA metabarcoding—Need for robust experimental designs to draw sound ecological conclusions. <i>Molecular Ecology</i> , 2019, 28, 1857-1862.	3.9	300
9	How quantitative is metabarcoding: A meta-analytical approach. <i>Molecular Ecology</i> , 2019, 28, 420-430.	3.9	274
10	Annual time-series analysis of aqueous eDNA reveals ecologically relevant dynamics of lake ecosystem biodiversity. <i>Nature Communications</i> , 2017, 8, 14087.	12.8	229
11	Acidity promotes degradation of multi-species environmental DNA in lotic mesocosms. <i>Communications Biology</i> , 2018, 1, 4.	4.4	219
12	DNAqua-Net: Developing new genetic tools for bioassessment and monitoring of aquatic ecosystems in Europe. <i>Research Ideas and Outcomes</i> , 0, 2, e11321.	1.0	154
13	Ecosystems monitoring powered by environmental genomics: A review of current strategies with an implementation roadmap. <i>Molecular Ecology</i> , 2021, 30, 2937-2958.	3.9	149
14	Worldwide Analysis of Sedimentary DNA Reveals Major Gaps in Taxonomic Knowledge of Deep-Sea Benthos. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	138
15	Environmental metabarcoding reveals heterogeneous drivers of microbial eukaryote diversity in contrasting estuarine ecosystems. <i>ISME Journal</i> , 2015, 9, 1208-1221.	9.8	120
16	Detection of introduced and resident marine species using environmental DNA metabarcoding of sediment and water. <i>Scientific Reports</i> , 2019, 9, 11559.	3.3	109
17	Using DNA metabarcoding to investigate honey bee foraging reveals limited flower use despite high floral availability. <i>Scientific Reports</i> , 2017, 7, 42838.	3.3	105
18	Performance of amplicon and shotgun sequencing for accurate biomass estimation in invertebrate community samples. <i>Molecular Ecology Resources</i> , 2018, 18, 1020-1034.	4.8	104

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19	Divergent national-scale trends of microbial and animal biodiversity revealed across diverse temperate soil ecosystems. <i>Nature Communications</i> , 2019, 10, 1107.	12.8	104
20	Metagenetic analysis of patterns of distribution and diversity of marine meiobenthic eukaryotes. <i>Global Ecology and Biogeography</i> , 2014, 23, 1293-1302.	5.8	96
21	Experimental harvesting of fish populations drives genetically based shifts in body size and maturation. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 181-187.	4.0	93
22	Coexisting cryptic species of the <i>Litoditis marina</i> complex (Nematoda) show differential resource use and have distinct microbiomes with high intraspecific variability. <i>Molecular Ecology</i> , 2016, 25, 2093-2110.	3.9	89
23	Soil textural heterogeneity impacts bacterial but not fungal diversity. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107766.	8.8	88
24	Temperate airborne grass pollen defined by spatio-temporal shifts in community composition. <i>Nature Ecology and Evolution</i> , 2019, 3, 750-754.	7.8	75
25	Sample richness and genetic diversity as drivers of chimera formation in nSSU metagenetic analyses. <i>Nucleic Acids Research</i> , 2012, 40, e66-e66.	14.5	74
26	Evaluation of mesofauna communities as soil quality indicators in a national-level monitoring programme. <i>Soil Biology and Biochemistry</i> , 2017, 115, 537-546.	8.8	68
27	Key Questions for Next-Generation Biomonitoring. <i>Frontiers in Environmental Science</i> , 2020, 7, .	3.3	68
28	Environmental DNA size sorting and degradation experiment indicates the state of <i>Daphnia magna</i> mitochondrial and nuclear eDNA is subcellular. <i>Scientific Reports</i> , 2019, 9, 12500.	3.3	67
29	Sample size effects on the assessment of eukaryotic diversity and community structure in aquatic sediments using high-throughput sequencing. <i>Scientific Reports</i> , 2018, 8, 11737.	3.3	55
30	Revealing higher than expected meiofaunal diversity in Antarctic sediments: a metabarcoding approach. <i>Scientific Reports</i> , 2017, 7, 6094.	3.3	51
31	Executing multi-taxa eDNA ecological assessment via traditional metrics and interactive networks. <i>Science of the Total Environment</i> , 2020, 729, 138801.	8.0	51
32	Phylogenomics and species delimitation for effective conservation of manta and devil rays. <i>Molecular Ecology</i> , 2020, 29, 4783-4796.	3.9	45
33	Plant and soil communities are associated with the response of soil water repellency to environmental stress. <i>Science of the Total Environment</i> , 2019, 687, 929-938.	8.0	41
34	Strategies for sample labelling and library preparation in DNA metabarcoding studies. <i>Molecular Ecology Resources</i> , 2022, 22, 1231-1246.	4.8	40
35	Animals, protists and bacteria share marine biogeographic patterns. <i>Nature Ecology and Evolution</i> , 2021, 5, 738-746.	7.8	36
36	Plasticity in growth of farmed and wild Atlantic salmon: is the increased growth rate of farmed salmon caused by evolutionary adaptations to the commercial diet?. <i>BMC Evolutionary Biology</i> , 2016, 16, 264.	3.2	34

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37	Whole genome duplication and transposable element proliferation drive genome expansion in Corydoradinae catfishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172732.	2.6	32
38	Salinity drives meiofaunal community structure dynamics across the Baltic ecosystem. <i>Molecular Ecology</i> , 2019, 28, 3813-3829.	3.9	31
39	Shifts in honeybee foraging reveal historical changes in floral resources. <i>Communications Biology</i> , 2021, 4, 37.	4.4	31
40	Environmental DNA provides higher resolution assessment of riverine biodiversity and ecosystem function via spatio-temporal nestedness and turnover partitioning. <i>Communications Biology</i> , 2021, 4, 512.	4.4	30
41	Tideless estuaries in brackish seas as possible freshwater-marine transition zones for bacteria: the case study of the Vistula river estuary. <i>Environmental Microbiology Reports</i> , 2017, 9, 129-143.	2.4	28
42	Predicting the severity of the grass pollen season and the effect of climate change in Northwest Europe. <i>Science Advances</i> , 2021, 7, .	10.3	28
43	Primer and Database Choice Affect Fungal Functional but Not Biological Diversity Findings in a National Soil Survey. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	26
44	Soil health cluster analysis based on national monitoring of soil indicators. <i>European Journal of Soil Science</i> , 2021, 72, 2414-2429.	3.9	26
45	Connecting high-throughput biodiversity inventories: Opportunities for a site-based genomic framework for global integration and synthesis. <i>Molecular Ecology</i> , 2021, 30, 1120-1135.	3.9	26
46	Informing marine spatial planning decisions with environmental DNA. <i>Advances in Ecological Research</i> , 2020, 62, 375-407.	2.7	24
47	Environmental DNA reveals links between abundance and composition of airborne grass pollen and respiratory health. <i>Current Biology</i> , 2021, 31, 1995-2003.e4.	3.9	21
48	Subtle shifts in microbial communities occur alongside the release of carbon induced by drought and rewetting in contrasting peatland ecosystems. <i>Scientific Reports</i> , 2017, 7, 11314.	3.3	20
49	Deep segregation in the open ocean: Macaronesia as an evolutionary hotspot for low dispersal marine invertebrates. <i>Molecular Ecology</i> , 2019, 28, 1784-1800.	3.9	20
50	Introduction: Special issue on species interactions, ecological networks and community dynamics – Untangling the entangled bank using molecular techniques. <i>Molecular Ecology</i> , 2019, 28, 157-164.	3.9	20
51	Molecular characterization of a marine turtle tumor epizootic, profiling external, internal and postsurgical regrowth tumors. <i>Communications Biology</i> , 2021, 4, 152.	4.4	20
52	Cosmopolitanism of microbial eukaryotes in the global deep seas. <i>Molecular Ecology</i> , 2012, 21, 1033-1035.	3.9	17
53	Environmental DNA monitoring of oncogenic viral shedding and genomic profiling of sea turtle fibropapillomatosis reveals unusual viral dynamics. <i>Communications Biology</i> , 2021, 4, 565.	4.4	17
54	Evolutionary drivers of kype size in Atlantic salmon ( <i>Salmo salar</i> ): domestication, age and genetics. <i>Royal Society Open Science</i> , 2019, 6, 190021.	2.4	16

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55	High throughput shotgun sequencing of eRNA reveals taxonomic and derived functional shifts across a benthic productivity gradient. <i>Molecular Ecology</i> , 2021, 30, 3023-3039.	3.9	16
56	DNA Metabarcoding Methods for the Study of Marine Benthic Meiofauna: A Review. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	16
57	Investigating the molecular systematic relationships amongst selected <i>Plesionika</i> ( <i>D</i> ecapoda: <i>P</i> andalidae) from the <i>N</i> ortheast <i>A</i> tantic and <i>M</i> editerranean <i>S</i> ea. <i>Marine Ecology</i> , 2013, 34, 157-170.	1.1	14
58	Using DNA Metabarcoding to Identify Floral Visitation by Pollinators. <i>Diversity</i> , 2022, 14, 236.	1.7	14
59	Long-Term Drought and Warming Alter Soil Bacterial and Fungal Communities in an Upland Heathland. <i>Ecosystems</i> , 2022, 25, 1279-1294.	3.4	13
60	Does density influence relative growth performance of farm, wild and F <sub>1</sub> hybrid Atlantic salmon in semi-natural and hatchery common garden conditions?. <i>Royal Society Open Science</i> , 2016, 3, 160152.	2.4	10
61	Seasonal progression and differences in major floral resource use by bees and hoverflies in a diverse horticultural and agricultural landscape revealed by DNA metabarcoding. <i>Journal of Applied Ecology</i> , 2022, 59, 1484-1495.	4.0	10
62	Epistatic regulation of growth in Atlantic salmon revealed: a QTL study performed on the domesticated-wild interface. <i>BMC Genetics</i> , 2020, 21, 13.	2.7	9
63	Novel insights into marine fish biodiversity across a pronounced environmental gradient using replicated environmental DNA analyses. <i>Environmental DNA</i> , 2022, 4, 181-190.	5.8	9
64	Plasticity in response to feed availability: Does feeding regime influence the relative growth performance of domesticated, wild and hybrid Atlantic salmon <i>Salmo salar</i> parr?. <i>Journal of Fish Biology</i> , 2016, 89, 1754-1768.	1.6	8
65	Managing human-mediated range shifts: understanding spatial, temporal and genetic variation in marine non-native species. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20210025.	4.0	8
66	Temporal Patterns of Honeybee Foraging in a Diverse Floral Landscape Revealed Using Pollen DNA Metabarcoding of Honey. <i>Integrative and Comparative Biology</i> , 2022, 62, 199-210.	2.0	8
67	Shifts in Soil Structure, Biological, and Functional Diversity Under Long-Term Carbon Deprivation. <i>Frontiers in Microbiology</i> , 2021, 12, 735022.	3.5	7
68	Above-below surface interactions mediate effects of seagrass disturbance on meiobenthic diversity, nematode and polychaete trophic structure. <i>Communications Biology</i> , 2019, 2, 362.	4.4	6
69	Disentangling the effects of sex, life history and genetic background in Atlantic salmon: growth, heart and liver under common garden conditions. <i>Royal Society Open Science</i> , 2020, 7, 200811.	2.4	4
70	Domestication-induced reduction in eye size revealed in multiple common garden experiments: The case of Atlantic salmon ( <i>Salmo salar</i> L.). <i>Evolutionary Applications</i> , 2021, 14, 2319-2332.	3.1	4
71	Decoupled richness of generalist anaerobes and sulphate-reducing bacteria is driven by pH across land uses in temperate soils. <i>European Journal of Soil Science</i> , 2021, 72, 2445-2456.	3.9	4
72	Marine ecology: Genetics from a drop in the ocean. <i>Nature Ecology and Evolution</i> , 2017, 1, 37.	7.8	3

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73	Ancient geological dynamics impact neutral biodiversity accumulation and are detectable in phylogenetic reconstructions. <i>Global Ecology and Biogeography</i> , 2021, 30, 1633-1642.	5.8	1
74	Challenges to Implementing Environmental-DNA Monitoring in Namibia. <i>Frontiers in Environmental Science</i> , 2022, 9, .	3.3	1