RESEARCH & PUBLICATIONS

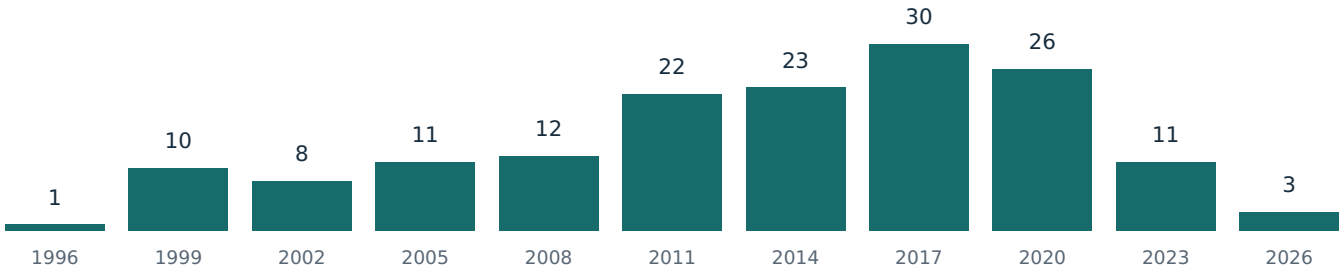
Simon Ferrier

A publication record at a glance

157	38,472	70
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Novel Methods Improve Prediction of Species' Distributions From Occurrence Data — 7,724
2006 Ecography

Biodiversity Redistribution Under Climate Change: Impacts on Ecosystems and Human Well-Being — 3,213
2017 Science

Sample Selection Bias and Presence-Only Distribution Models: Implications for Background and Pseudo-Absence Data — 2,682
2009 Ecological Applications

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2026

01 A Nature-Positive World Is More Than the Sum of Its Parts — 3 citations
Methods in Ecology and Evolution · 17, 1405-1417
https://exaly.com/article/207756290

02 A Global Research Coordination Programme Is Urgently Needed for Biodiversity — 2 citations
Nature Ecology and Evolution · 10, 1386-1388
https://exaly.com/article/215379628

03 Car-Mounted Airborne eDNA Sampling Detects Landscape Scale Biodiversity Turnover Along Environmental Gradients — 0 citations
Molecular Ecology Resources
https://exaly.com/article/228649178

2025

04 Accounting for Australia's Threatened Species: Estimating Historical and Recent Change in Terrestrial Habitat — 7 citations
Ecological Indicators · 170, 112978
https://exaly.com/article/195845051

05 Large-Scale Pyrodiversity Is Not Needed to Beget Ant Diversity in an Australian Tropical Savanna — 1 citations
Oecologia · 207, 1-15
https://exaly.com/article/198263527

06 Intrinsic Dimensionality as a Metric for Temporal Plant Diversity Evaluation: Case Study From the SHIFT Campaign — 2 citations
Ecosphere · 16, e70213
https://exaly.com/article/200044342

07 A Habitat-Based Approach to Reporting the Direct Impacts of an Organization on Biodiversity — 4 citations
Conservation Biology · 39, e70071
https://exaly.com/article/201506610

08 A Framework for Dynamic Assessment of Terrestrial Ecosystem Condition — 2 citations
Global Ecology and Biogeography · 34, e70132
https://exaly.com/article/206313366

2024

09 Corroboration and Contradictions in Global Biodiversity Indicators — 17 citations
Biological Conservation · 290, 110451
https://exaly.com/article/175704613

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2024 / continued

10 **Global Trends and Scenarios for Terrestrial Biodiversity and Ecosystem Services From 1900 to 2050**
317 citations
Science · 384, 458-465
https://exaly.com/article/184893262

11 **An Introduction to Key Ecological Concepts, Financial Opportunities, and Risks Underpinning Aspirations for Nature Positive.**
25 citations
BioScience · 74, 450-466
https://exaly.com/article/187852590

12 **Ecosystem Extent Is a Necessary but Not Sufficient Indicator of the State of Global Forest Biodiversity**
6 citations
Conservation Letters · 17, e13045
https://exaly.com/article/188558237

13 **The Kunming-Montreal Global Biodiversity Framework Needs Headline Indicators That Can Actually Monitor Forest Integrity**
8 citations
Environmental research. Ecology · 3, 043001
https://exaly.com/article/192731787

2023

14 **Plant Species Richness Prediction From DESIS Hyperspectral Data: A Comparison Study on Feature Extraction Procedures and Regression Models**
32 citations
ISPRS Journal of Photogrammetry and Remote Sensing · 196, 120-133
https://exaly.com/article/158601270

2022

15 **Increasing the Uptake of Ecological Model Results in Policy Decisions to Improve Biodiversity Outcomes**
30 citations
Environmental Modelling and Software · 149, 105318
https://exaly.com/article/125395579

16 **A Working Guide to Harnessing Generalized Dissimilarity Modelling for Biodiversity Analysis and Conservation Assessment**
164 citations
Global Ecology and Biogeography · 31, 802-821
https://exaly.com/article/134379331

17 **Response: Where Might We Find Ecologically Intact Communities?**
6 citations
Frontiers in Forests and Global Change · 5, 730546
https://exaly.com/article/134744400

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2022 / continued

18 **Habitat-Based Biodiversity Assessment for Ecosystem Accounting in the Murray–Darling Basin** — 24 citations
Conservation Biology · 36, e13915
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19 **Achieving Global Biodiversity Goals by 2050 Requires Urgent and Integrated Actions** — 124 citations
One Earth · 5, 597-603
https://exaly.com/article/148500822

20 **Staying Connected: Assessing the Capacity of Landscapes to Retain Biodiversity in a Changing Climate** — 7 citations
Landscape Ecology · 37, 3123-3139
https://exaly.com/article/155183342

21 **Quantitative Assessment of DESIS Hyperspectral Data for Plant Biodiversity Estimation in Australia** — 6 citations
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22 **Matching Biodiversity Indicators to Policy Needs.** — 42 citations
Conservation Biology · 35, 522-532
https://exaly.com/article/77696894

23 **Linking Biodiversity Into National Economic Accounting** — 49 citations
Environmental Science and Policy · 116, 20-29
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24 **Extending Vegetation Site Data and Ensemble Models to Predict Patterns of Foliage Cover and Species Richness for Plant Functional Groups** — 11 citations
Landscape Ecology · 36, 1391-1407
https://exaly.com/article/79360843

25 **Toward Monitoring Forest Ecosystem Integrity Within the Post-2020 Global Biodiversity Framework** — 87 citations
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https://exaly.com/article/81275446

26 **A New Approach to Evaluate and Reduce Uncertainty of Model-Based Biodiversity Projections for Conservation Policy Formulation** — 12 citations
BioScience · 71, 1261-1273
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27 **Annual Changes in the Biodiversity Intactness Index in Tropical and Subtropical Forest Biomes, 2001–2012**

Scientific Reports · 11, 1-13

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28 **Challenges in Producing Policy-Relevant Global Scenarios of Biodiversity and Ecosystem Services**

Global Ecology and Conservation · 22, e00886

https://exaly.com/article/75215627

46 citations

29 **Developing Multiscale and Integrative Nature–People Scenarios Using the Nature Futures Framework**

People and Nature · 2, 1172-1195

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30 **Reference State and Benchmark Concepts for Better Biodiversity Conservation in Contemporary Ecosystems**

Global Change Biology · 26, 6702-6714

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31 **Presence-Only and Presence-Absence Data for Comparing Species Distribution Modeling Methods**

Biodiversity Informatics · 15, 69-80

https://exaly.com/article/75881072

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32 **BILBI: Supporting Global Biodiversity Assessment Through High-Resolution Macroecological Modelling**

Environmental Modelling and Software · 132, 104806

https://exaly.com/article/75961288

55 citations

33 **Bending the Curve of Terrestrial Biodiversity Needs an Integrated Strategy**

Nature · 585, 551-556

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34 **A Globally Applicable Indicator of the Capacity of Terrestrial Ecosystems to Retain Biological Diversity Under Climate Change: The Bioclimatic Ecosystem Resilience Index**

Ecological Indicators · 117, 106554

https://exaly.com/article/76893350

55 citations

35 **Sustainable Development Must Account for Pandemic Risk**

Proceedings of the National Academy of Sciences of the United States of America · 117, 3888-3892

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248 citations

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36 **Mapping Co-Benefits for Carbon Storage and Biodiversity to Inform Conservation Policy and Action**
191 citations
Philosophical Transactions of the Royal Society B: Biological Sciences · 375, 20190128
https://exaly.com/article/77417047

37 **Reconciling Global Priorities for Conserving Biodiversity Habitat**
120 citations
Proceedings of the National Academy of Sciences of the United States of America · 117, 9906-9911
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38 **Essential Biodiversity Variables: Integrating In-Situ Observations and Remote Sensing Through Modeling**
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39 **Prioritizing Where to Restore Earth's Ecosystems**
14 citations
Nature · 586, 680-681
https://exaly.com/article/84835660

40 **Increasing Capacity to Produce Scenarios and Models for Biodiversity and Ecosystem Services**
5 citations
Biota Neotropica · 20, e20201101
https://exaly.com/article/87439691

2019

41 **Synergies Between the Key Biodiversity Area and Systematic Conservation Planning Approaches**
70 citations
Conservation Letters · 12, e12625
https://exaly.com/article/70537216

42 **Improving Links Between Environmental Accounting and Scenario-Based Cumulative Impact Assessment for Better-Informed Biodiversity Decisions**
18 citations
Journal of Applied Ecology · 56, 2732-2741
https://exaly.com/article/72534162

43 **Wilderness Areas Halve the Extinction Risk of Terrestrial Biodiversity**
206 citations
Nature · 573, 582-585
https://exaly.com/article/72706043

44 **Projecting Impacts of Global Climate and Land-Use Scenarios on Plant Biodiversity Using Compositional-Turnover Modelling**
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Global Change Biology · 25, 2763-2778
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45 **Essential Biodiversity Variables for Mapping and Monitoring Species Populations**
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Nature Ecology and Evolution · 3, 539-551
https://exaly.com/article/73494146

46 **Community Assembly Processes Restrict the Capacity for Genetic Adaptation Under Climate Change**
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Ecography · 42, 1164-1174
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47 **Incorporating Existing Thermal Tolerance Into Projections of Compositional Turnover Under Climate Change**
8 citations
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https://exaly.com/article/73788557

48 **The Importance of Defining Measures of Stability in Macroecology and Biogeography**
9 citations
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https://exaly.com/article/73886911

49 **Riddles in the Dark: Assessing Diversity Patterns for Cryptic Subterranean Fauna of the Pilbara**
20 citations
Diversity and Distributions · 25, 240-254
https://exaly.com/article/74707324

50 **Scenarios and Models to Support Global Conservation Targets**
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Trends in Ecology and Evolution · 34, 57-68
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51 **Editorial Essay: An Update on Progress Towards Aichi Biodiversity Target 11**
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https://exaly.com/article/88358089

2018

52 **Phylogeographic Evidence for Evolutionary Refugia in the Gulf Sandstone Ranges of Northern Australia**
11 citations
Australian Journal of Zoology · 65, 408-416
https://exaly.com/article/68454930

53 **Predicting Community Rank-Abundance Distributions Under Current and Future Climates**
13 citations
Ecography · 41, 1572-1582
https://exaly.com/article/68788796

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54 **Climate Velocity Can Inform Conservation in a Warming World** — 196 citations
Trends in Ecology and Evolution · 33, 441-457
https://exaly.com/article/69309814

55 **Managing Consequences of Climate-Driven Species Redistribution Requires Integration of Ecology, Conservation and Social Science** — 207 citations
Biological Reviews · 93, 284-305
https://exaly.com/article/69508041

56 **Truncation of Thermal Tolerance Niches Among Australian Plants** — 45 citations
Global Ecology and Biogeography · 27, 22-31
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57 **A Protocol for an Intercomparison of Biodiversity and Ecosystem Services Models Using Harmonized Land-Use and Climate Scenarios** — 89 citations
Geoscientific Model Development · 11, 4537-4562
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58 **Primary Productivity Is Related to Niche Width in the Australian Wet Tropics** — 0 citations
Global Ecology and Biogeography · 27, 1300-1313
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59 **Improving Biodiversity Surrogates for Conservation Assessment: A Test of Methods and the Value of Targeted Biological Surveys** — 22 citations
Diversity and Distributions · 24, 1333-1346
https://exaly.com/article/71566748

2017

60 **Biodiversity Modelling as Part of an Observation System** — 18 citations
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61 **Connecting Earth Observation to High-Throughput Biodiversity Data** — 181 citations
Nature Ecology and Evolution · 1, 1-9
https://exaly.com/article/66422148

62 **Biodiversity Redistribution Under Climate Change: Impacts on Ecosystems and Human Well-Being** — 3,213 citations
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https://exaly.com/article/66651196

63 **Past, Present and Future Refugia for Tasmania's Palaeoendemic Flora** — 27 citations
Journal of Biogeography · 44, 1537-1546
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64 Dimensions of Biodiversity Loss: Spatial Mismatch in Land-Use Impacts on Species, Functional and Phylogenetic Diversity of European Bees — 39 citations

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65 Multiscale Scenarios for Nature Futures — 158 citations

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66 A Guide to Phylogenetic Metrics for Conservation, Community Ecology and Macroecology — 786 citations

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67 Essential Biodiversity Variables for Measuring Change in Global Freshwater Biodiversity — 145 citations

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68 Using the Essential Biodiversity Variables Framework to Measure Biodiversity Change at National Scale — 40 citations

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69 Monitoring Biodiversity Change Through Effective Global Coordination — 196 citations

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70 Whole-Landscape Modelling of Compositional Turnover in Aquatic Invertebrates Informs Conservation Gap Analysis: An Example From South-Western Australia — 13 citations

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71 Quantifying the Relative Irreplaceability of Important Bird and Biodiversity Areas. — 30 citations

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72 Habitat Condition Assessment System: A New Way to Assess the Condition of Natural Habitats for Terrestrial Biodiversity Across Whole Regions Using Remote Sensing Data — 51 citations

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73 Assessing Collaborative, Privately Managed Biodiversity Conservation Derived From an Offsets Program: Lessons From the Southern Mallee of New South Wales, Australia
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74 Integrating Modelling of Biodiversity Composition and Ecosystem Function
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75 Incorporating Evolutionary Adaptation in Species Distribution Modelling Reduces Projected Vulnerability to Climate Change
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76 Has Land Use Pushed Terrestrial Biodiversity Beyond the Planetary Boundary? A Global Assessment
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77 Primary Productivity Is Weakly Related to Floristic Alpha and Beta Diversity Across Australia
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78 Local Biodiversity Is Higher Inside Than Outside Terrestrial Protected Areas Worldwide
Nature Communications · 7, 1-7
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82 Macroecological Scale Effects of Biodiversity on Ecosystem Functions Under Environmental Change
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83 Controlled Comparison of Species- and Community-Level Models Across Novel Climates and Communities
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86 Linking Changes in Community Composition and Function Under Climate Change
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91 **The Biodiversity Forecasting Toolkit: Answering the 'How Much', 'What', and 'Where' of Planning for Biodiversity Persistence**
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93 **Supply of Carbon Sequestration and Biodiversity Services From Australia's Agricultural Land Under Global Change**
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94 **The Role of Geography and Environment in Species Turnover: Phytophagous Arthropods on a Neotropical Legume**
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96 **Net Present Biodiversity Value and the Design of Biodiversity Offsets**
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97 **Essential Biodiversity Variables**
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98 **Environmental and Historical Imprints on Beta Diversity: Insights From Variation in Rates of Species Turnover Along Gradients**
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100 **Modeling the Climatic Drivers of Spatial Patterns in Vegetation Composition Since the Last Glacial Maximum**
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101 **Strong Congruence in Tree and Fern Community Turnover in Response to Soils and Climate in Central Panama**
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102 **A Probabilistic Approach to Niche-Based Community Models for Spatial Forecasts of Assemblage Properties and Their Uncertainties**
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103 **Predicting Species Distributions for Conservation Decisions**
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104 **Ecosystem Greenspots: Identifying Potential Drought, Fire, and Climate-Change Micro-Refuges**
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105 **Which Environmental Variables Should I Use in My Biodiversity Model?**
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110 **Combining α - And β -Diversity Models to Fill Gaps in Our Knowledge of Biodiversity**
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111 **Planning for the Persistence of River Biodiversity: Exploring Alternative Futures Using Process-Based Models**
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112 **Use of Generalised Dissimilarity Modelling to Improve the Biological Discrimination of River and Stream Classifications**
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113 **Predicting Impacts of Climate Change on Biodiversity: A Role for Semi-Mechanistic Community-Level Modelling**
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117 Improving the Assessment of Species Compositional Dissimilarity in a Priori Ecological Classifications: Evaluating Map Scale, Sampling Intensity and Improvement in a Hierarchical Classification — 6 citations

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120 Uniting Marine and Terrestrial Modelling of Biodiversity Under Climate Change — 10 citations

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129 Improving the Key Biodiversity Areas Approach for Effective Conservation Planning
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130 Using Generalized Dissimilarity Modelling to Analyse and Predict Patterns of Beta Diversity in Regional Biodiversity Assessment
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131 The Spatial Links Tool: Automated Mapping of Habitat Linkages in Variegated Landscapes
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132 A Raster-Based Technique for Analysing Habitat Configuration: The Cost–Benefit Approach
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