

# Philip S Barton

## List of Publications by Year in descending order

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Version: 2024-02-01

138  
papers

4,591  
citations

136885

32  
h-index

128225

60  
g-index

140  
all docs

140  
docs citations

140  
times ranked

5446  
citing authors

#	ARTICLE	IF	CITATIONS
1	What's hot and what's not – Identifying publication trends in insect ecology. Austral Ecology, 2022, 47, 5-16.	0.7	9
2	Development of larvae of the Australian blowfly, <i>Calliphora augur</i> (Diptera: Calliphoridae), at constant temperatures. Australian Journal of Forensic Sciences, 2022, 54, 710-721.	0.7	4
3	Introduction to the Insect Ecology Special Issue. Austral Ecology, 2022, 47, 3-4.	0.7	0
4	Insect abundance patterns on vertebrate remains reveal carrion resource quality variation. Oecologia, 2022, 198, 1043-1056.	0.9	5
5	The predatory impacts of invasive European wasps on flies are facilitated by carcasses with open wounds. Food Webs, 2022, 31, e00227.	0.5	2
6	How does mass loss compare with total body score when assessing decomposition of human and pig cadavers?. Forensic Science, Medicine, and Pathology, 2022, 18, 343-351.	0.6	5
7	Priority effects and density promote coexistence between the facultative predator <i>Chrysomya rufifacies</i> and its competitor <i>Calliphora stygia</i> . Oecologia, 2022, 199, 181-191.	0.9	3
8	Love at first flight: wing interference patterns are species-specific and sexually dimorphic in blowflies (Diptera: Calliphoridae). Journal of Evolutionary Biology, 2021, 34, 558-570.	0.8	19
9	First instar larvae of endemic Australian Miltogramminae (Diptera: Sarcophagidae). Scientific Reports, 2021, 11, 2687.	1.6	2
10	Limited understanding of bushfire impacts on Australian invertebrates. Insect Conservation and Diversity, 2021, 14, 285-293.	1.4	27
11	Ant community responses to farmland use and revegetation in a fragmented agricultural landscape. Agriculture, Ecosystems and Environment, 2021, 311, 107316.	2.5	6
12	Is Resource Change a Useful Predictor of Carrion Insect Succession on Pigs and Humans?. Journal of Medical Entomology, 2021, 58, 2228-2235.	0.9	14
13	Monitoring the dead as an ecosystem indicator. Ecology and Evolution, 2021, 11, 5844-5856.	0.8	22
14	Convergence of Social Strategies in Carrion Breeding Insects. BioScience, 2021, 71, 1028-1037.	2.2	19
15	Ecological processes associated with different animal taxa in urban environments. Ecosphere, 2021, 12, e03712.	1.0	4
16	Temperature dynamics in different body regions of decomposing vertebrate remains. Forensic Science International, 2021, 325, 110900.	1.3	7
17	Integrative taxonomy reveals remarkable diversity in Australian Protomiltogramma (Diptera: Tj ETQq1 1 0.784314 r gBT /Overlock 10 Tf	0.2	3
18	Field succession studies and casework can help to identify forensically useful Diptera. Journal of Forensic Sciences, 2021, 66, 2319-2328.	0.9	6

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19	How bioregional history could shape the future of agriculture. <i>Advances in Ecological Research</i> , 2021, , 149-189.	1.4	6
20	A new species of carrion-breeding "golden blowfly" from south-eastern Australia (Diptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.1	0
21	Using ecological niche theory to avoid uninformative biodiversity surrogates. <i>Ecological Indicators</i> , 2020, 108, 105692.	2.6	8
22	Pollination and resource limitation as interacting constraints on almond fruit set. <i>Plant Biology</i> , 2020, 22, 113-119.	1.8	11
23	Echoing the Need to Quantify Carrion Biomass Production. <i>Trends in Ecology and Evolution</i> , 2020, 35, 92-94.	4.2	2
24	A reintroduced ecosystem engineer provides a germination niche for native plant species. <i>Biodiversity and Conservation</i> , 2020, 29, 817-837.	1.2	13
25	Contrasting insect activity and decomposition of pigs and humans in an Australian environment: A preliminary study. <i>Forensic Science International</i> , 2020, 316, 110515.	1.3	26
26	Major Transitions in Cuticular Hydrocarbon Expression Coincide with Sexual Maturity in a Blowfly (Diptera: Calliphoridae). <i>Journal of Chemical Ecology</i> , 2020, 46, 610-618.	0.9	9
27	The evolution of sexually dimorphic cuticular hydrocarbons in blowflies (Diptera: Calliphoridae). <i>Journal of Evolutionary Biology</i> , 2020, 33, 1468-1486.	0.8	11
28	Soil chemical markers distinguishing human and pig decomposition islands: a preliminary study. <i>Forensic Science, Medicine, and Pathology</i> , 2020, 16, 605-612.	0.6	10
29	Quantifying shifts in topic popularity over 44 years of <i>Austral Ecology</i> . <i>Austral Ecology</i> , 2020, 45, 663-671.	0.7	6
30	Invasive European wasps alter scavenging dynamics around carrion. <i>Food Webs</i> , 2020, 24, e00144.	0.5	11
31	<i>Macronychia</i> (Diptera: Sarcophagidae) goes cosmopolitan: description and molecular delineation of the first Australasian species. <i>Austral Entomology</i> , 2020, 59, 292-301.	0.8	4
32	Flower visitation and land cover associations of above ground- and below ground-nesting native bees in an agricultural region of south-east Australia. <i>Agriculture, Ecosystems and Environment</i> , 2020, 295, 106895.	2.5	27
33	Traits reveal ecological strategies driving carrion insect community assembly. <i>Ecological Entomology</i> , 2020, 45, 966-977.	1.1	12
34	Solutions for humanity on how to conserve insects. <i>Biological Conservation</i> , 2020, 242, 108427.	1.9	203
35	Scientists' warning to humanity on insect extinctions. <i>Biological Conservation</i> , 2020, 242, 108426.	1.9	458
36	Conserving focal insect groups in woodland remnants: The role of landscape context and habitat structure on cross-taxonomic congruence. <i>Ecological Indicators</i> , 2020, 115, 106391.	2.6	7

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37	Integrative Taxonomy of Australian <i>Metopia</i> (Sarcophagidae: Miltogramminae) Reveals a New Species and Challenges Traditional Phylogeny. <i>Insect Systematics and Diversity</i> , 2020, 4, .	0.7	3
38	Contrasting effects of mosaic structure on alpha and beta diversity of bird assemblages in a human-modified landscape. <i>Ecography</i> , 2019, 42, 173-186.	2.1	12
39	Towards Quantifying Carrion Biomass in Ecosystems. <i>Trends in Ecology and Evolution</i> , 2019, 34, 950-961.	4.2	64
40	Dynamic soil nutrient and moisture changes under decomposing vertebrate carcasses. <i>Biogeochemistry</i> , 2019, 146, 71-82.	1.7	22
41	Nutrient and moisture transfer to insect consumers and soil during vertebrate decomposition. <i>Food Webs</i> , 2019, 18, e00110.	0.5	14
42	The Blow Fly Waltz: Field and Laboratory Observations of Novel and Complex Dipteran Courtship Behavior. <i>Journal of Insect Behavior</i> , 2019, 32, 109-119.	0.4	21
43	Managing uncertainty in movement knowledge for environmental decisions. <i>Conservation Letters</i> , 2019, 12, e12620.	2.8	6
44	Beetle ecological indicators – A comparison of cost vs reward to understand functional changes in response to restoration actions. <i>Ecological Indicators</i> , 2019, 104, 209-218.	2.6	9
45	Interactive effects of land use, grazing and environment on frogs in an agricultural landscape. <i>Agriculture, Ecosystems and Environment</i> , 2019, 281, 25-34.	2.5	13
46	Avian functional responses to landscape recovery. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190114.	1.2	21
47	Novel bird responses to successive, large-scale, landscape transformations. <i>Ecological Monographs</i> , 2019, 89, e01362.	2.4	20
48	Invertebrate scavengers matter. <i>Science</i> , 2019, 363, 1162-1162.	6.0	7
49	The use and utility of surrogates in biodiversity monitoring programmes. <i>Journal of Applied Ecology</i> , 2019, 56, 1304-1310.	1.9	11
50	First gall midge (Diptera: Cecidomyiidae) known to feed on plant family Atherospermataceae: a new species of <i>Asphondylia</i> damaging the endangered Australian tree <i>Daphnandra johnsonii</i> . <i>Austral Entomology</i> , 2019, 58, 317-323.	0.8	3
51	Higher-taxon and functional group responses of ant and bird assemblages to livestock grazing: A test of an explicit surrogate concept. <i>Ecological Indicators</i> , 2019, 96, 458-465.	2.6	4
52	Necrobiome framework for bridging decomposition ecology of autotrophically and heterotrophically derived organic matter. <i>Ecological Monographs</i> , 2019, 89, e01331.	2.4	127
53	How practitioners integrate decision triggers with existing metrics in conservation monitoring. <i>Journal of Environmental Management</i> , 2019, 230, 94-101.	3.8	14
54	Invertebrate Scavenging Communities. <i>Wildlife Research Monographs</i> , 2019, , 45-69.	0.4	8

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55	Carrion Decomposition. <i>Wildlife Research Monographs</i> , 2019, , 101-124.	0.4	20
56	Effects of digging by a native and introduced ecosystem engineer on soil physical and chemical properties in temperate grassy woodland. <i>PeerJ</i> , 2019, 7, e7506.	0.9	8
57	Dynamic effects of ground-layer plant communities on beetles in a fragmented farming landscape. <i>Biodiversity and Conservation</i> , 2018, 27, 2131-2153.	1.2	21
58	Reptiles and frogs use most land cover types as habitat in a fine-grained agricultural landscape. <i>Austral Ecology</i> , 2018, 43, 502-513.	0.7	12
59	Tests of predictions associated with temporal changes in Australian bird populations. <i>Biological Conservation</i> , 2018, 222, 212-221.	1.9	27
60	Conservation conundrums and the challenges of managing unexplained declines of multiple species. <i>Biological Conservation</i> , 2018, 221, 279-292.	1.9	42
61	Monitoring the extent of vertical and lateral movement of human decomposition products through sediment using cholesterol as a biomarker. <i>Forensic Science International</i> , 2018, 285, 93-104.	1.3	18
62	A long-term habitat fragmentation experiment leads to morphological change in a species of carabid beetle. <i>Ecological Entomology</i> , 2018, 43, 282-293.	1.1	6
63	Seal carrion is a predictable resource for coastal ecosystems. <i>Acta Oecologica</i> , 2018, 88, 41-51.	0.5	11
64	Beetle's responses to edges in fragmented landscapes are driven by adjacent farmland use, season and cross-habitat movement. <i>Landscape Ecology</i> , 2018, 33, 109-125.	1.9	14
65	Effects of fire regime on plant species richness and composition differ among forest, woodland and heath vegetation. <i>Applied Vegetation Science</i> , 2018, 21, 132-143.	0.9	18
66	Species co-occurrence networks show reptile community reorganization under agricultural transformation. <i>Ecography</i> , 2018, 41, 113-125.	2.1	31
67	Cross-taxonomic surrogates for biodiversity conservation in human-modified landscapes – A multi-taxa approach. <i>Biological Conservation</i> , 2018, 224, 336-346.	1.9	17
68	Surrogates Underpin Ecological Understanding and Practice. <i>BioScience</i> , 2018, 68, 640-642.	2.2	8
69	Disentangling the effects of farmland use, habitat edges, and vegetation structure on ground beetle morphological traits. <i>Oecologia</i> , 2018, 188, 645-657.	0.9	21
70	Effects of past and present livestock grazing on herpetofauna in a landscape-scale experiment. <i>Conservation Biology</i> , 2017, 31, 446-458.	2.4	29
71	Optimal taxonomic groups for biodiversity assessment: a meta-analytic approach. <i>Ecography</i> , 2017, 40, 539-548.	2.1	37
72	Environmental and spatial drivers of spider diversity at contrasting microhabitats. <i>Austral Ecology</i> , 2017, 42, 700-710.	0.7	18

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73	Remnant vegetation, plantings and fences are beneficial for reptiles in agricultural landscapes. <i>Journal of Applied Ecology</i> , 2017, 54, 1710-1719.	1.9	21
74	Effects of ecological restoration on soil microbial diversity in a temperate grassy woodland. <i>Applied Soil Ecology</i> , 2017, 117-118, 117-128.	2.1	28
75	Insect biodiversity meets ecosystem function: differential effects of habitat and insects on carrion decomposition. <i>Ecological Entomology</i> , 2017, 42, 364-374.	1.1	45
76	Effects of a large wildfire on vegetation structure in a variable fire mosaic. <i>Ecological Applications</i> , 2017, 27, 2369-2381.	1.8	29
77	Fine-scale drivers of beetle diversity are affected by vegetation context and agricultural history. <i>Austral Ecology</i> , 2017, 42, 831-843.	0.7	4
78	Necrophilous Insect Dynamics at Small Vertebrate Carrion in a Temperate Eucalypt Woodland. <i>Journal of Medical Entomology</i> , 2017, 54, 964-973.	0.9	13
79	Does wing morphology affect recolonization of restored farmland by ground-dwelling beetles?. <i>Restoration Ecology</i> , 2017, 25, 234-242.	1.4	8
80	Contrasting beetle assemblage responses to cultivated farmlands and native woodlands in a dynamic agricultural landscape. <i>Ecosphere</i> , 2017, 8, e02042.	1.0	8
81	Body farms. <i>Forensic Science, Medicine, and Pathology</i> , 2017, 13, 487-489.	0.6	17
82	Effects of environmental variation and livestock grazing on ant community structure in temperate eucalypt woodlands. <i>Insect Conservation and Diversity</i> , 2016, 9, 124-134.	1.4	22
83	Incorporating regional-scale ecological knowledge to improve the effectiveness of large-scale conservation programmes. <i>Animal Conservation</i> , 2016, 19, 515-525.	1.5	9
84	Temporal trends in mammal responses to fire reveals the complex effects of fire regime attributes. <i>Ecological Applications</i> , 2016, 26, 557-573.	1.8	36
85	Long-term bird colonization and turnover in restored woodlands. <i>Biodiversity and Conservation</i> , 2016, 25, 1587-1603.	1.2	32
86	Birds as surrogates for mammals and reptiles: Are patterns of cross-taxonomic associations stable over time in a human-modified landscape?. <i>Ecological Indicators</i> , 2016, 69, 152-164.	2.6	17
87	Herbivory and fire interact to affect forest understory habitat, but not its use by small vertebrates. <i>Animal Conservation</i> , 2016, 19, 15-25.	1.5	26
88	Substantial long-term effects of carcass addition on soil and plants in a grassy eucalypt woodland. <i>Ecosphere</i> , 2016, 7, e01537.	1.0	44
89	Integrating theory into disturbance interaction experiments to better inform ecosystem management. <i>Global Change Biology</i> , 2016, 22, 1325-1335.	4.2	78
90	Do temporal changes in vegetation structure additional to time since fire predict changes in bird occurrence?. <i>Ecological Applications</i> , 2016, 26, 2267-2279.	1.8	17

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91	Evaluating the effectiveness of overstory cover as a surrogate for bird community diversity and population trends. <i>Ecological Indicators</i> , 2016, 61, 790-798.	2.6	8
92	Two roles for ecological surrogacy: Indicator surrogates and management surrogates. <i>Ecological Indicators</i> , 2016, 63, 121-125.	2.6	79
93	Wildlife Conservation in Farm Landscapes. , 2016, , .		17
94	Text analysis tools for identification of emerging topics and research gaps in conservation science. <i>Conservation Biology</i> , 2015, 29, 1606-1614.	2.4	71
95	Synergistic interactions between fire and browsing drive plant diversity in a forest understorey. <i>Journal of Vegetation Science</i> , 2015, 26, 1112-1123.	1.1	17
96	Can Coarse Woody Debris Be Used for Carbon Storage in Open Grazed Woodlands?. <i>Journal of Environmental Quality</i> , 2015, 44, 1210-1215.	1.0	5
97	Can habitat surrogates predict the response of target species to landscape change?. <i>Biological Conservation</i> , 2015, 184, 1-10.	1.9	28
98	Guidelines for Using Movement Science to Inform Biodiversity Policy. <i>Environmental Management</i> , 2015, 56, 791-801.	1.2	36
99	Interactive effects of fire and large herbivores on web-building spiders. <i>Oecologia</i> , 2015, 179, 237-248.	0.9	18
100	Learning from clinical medicine to improve the use of surrogates in ecology. <i>Oikos</i> , 2015, 124, 391-398.	1.2	24
101	Richness is not all: how changes in avian functional diversity reflect major landscape modification caused by pine plantations. <i>Diversity and Distributions</i> , 2015, 21, 836-847.	1.9	42
102	Effects of fire on vegetation and arthropods in a coastal heath, south-east Queensland. <i>Ecological Management and Restoration</i> , 2015, 16, 73-75.	0.7	2
103	A new framework for selecting environmental surrogates. <i>Science of the Total Environment</i> , 2015, 538, 1029-1038.	3.9	84
104	The Trajectory of Dispersal Research in Conservation Biology. <i>Systematic Review. PLoS ONE</i> , 2014, 9, e95053.	1.1	91
105	Multi-Scale Associations between Vegetation Cover and Woodland Bird Communities across a Large Agricultural Region. <i>PLoS ONE</i> , 2014, 9, e97029.	1.1	28
106	Visualization of species pairwise associations: a case study of surrogacy in bird assemblages. <i>Ecology and Evolution</i> , 2014, 4, 3279-3289.	0.8	18
107	Contrasting diversity dynamics of phoretic mites and beetles associated with vertebrate carrion. <i>Experimental and Applied Acarology</i> , 2014, 63, 1-13.	0.7	16
108	Dominant Drivers of Seedling Establishment in a Fire-Dependent Obligate Seeder: Climate or Fire Regimes?. <i>Ecosystems</i> , 2014, 17, 258-270.	1.6	40

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109	Vegetation structure moderates the effect of fire on bird assemblages in a heterogeneous landscape. <i>Landscape Ecology</i> , 2014, 29, 703-714.	1.9	30
110	Effects of methamphetamine and its primary human metabolite, p-hydroxymethamphetamine, on the development of the Australian blowfly <i>Calliphora stygia</i> . <i>Forensic Science International</i> , 2014, 241, 102-111.	1.3	22
111	Effect of massing on larval growth rate. <i>Forensic Science International</i> , 2014, 241, 141-149.	1.3	38
112	Effects of large native herbivores on other animals. <i>Journal of Applied Ecology</i> , 2014, 51, 929-938.	1.9	131
113	Global meta-analysis reveals low consistency of biodiversity congruence relationships. <i>Nature Communications</i> , 2014, 5, 3899.	5.8	128
114	Bird community responses to the edge between suburbs and reserves. <i>Oecologia</i> , 2014, 174, 545-557.	0.9	22
115	Infrared imaging as a non-invasive tool for documenting maggot mass temperatures. <i>Australian Journal of Forensic Sciences</i> , 2014, 46, 73-79.	0.7	14
116	The law of diminishing returns: woodland birds respond to native vegetation cover at multiple spatial scales and over time. <i>Diversity and Distributions</i> , 2014, 20, 59-71.	1.9	47
117	Carrion decomposition causes large and lasting effects on soil amino acid and peptide flux. <i>Soil Biology and Biochemistry</i> , 2014, 69, 132-140.	4.2	64
118	Robustness of habitat-based surrogates of animal diversity: a multitaxa comparison over time. <i>Journal of Applied Ecology</i> , 2014, 51, 1434-1443.	1.9	26
119	An Empirical Assessment of the Focal Species Hypothesis. <i>Conservation Biology</i> , 2014, 28, 1594-1603.	2.4	25
120	Cross-sectional and temporal relationships between bird occupancy and vegetation cover at multiple spatial scales. <i>Ecological Applications</i> , 2014, 24, 1275-1288.	1.8	31
121	An Empirical Assessment and Comparison of Species-Based and Habitat-Based Surrogates: A Case Study of Forest Vertebrates and Large Old Trees. <i>PLoS ONE</i> , 2014, 9, e89807.	1.1	62
122	Conceptual domain of the matrix in fragmented landscapes. <i>Trends in Ecology and Evolution</i> , 2013, 28, 605-613.	4.2	323
123	The role of carrion in maintaining biodiversity and ecological processes in terrestrial ecosystems. <i>Oecologia</i> , 2013, 171, 761-772.	0.9	272
124	Arthropod assemblages in a focal tree species ( <i>Eucalyptus microcarpa</i> ) depends on the species mix in restoration plantings. <i>Biodiversity and Conservation</i> , 2013, 22, 2091-2110.	1.2	5
125	Grassland area determines beetle assemblage dissimilarity from surrounding floodplain forest. <i>Journal of Insect Conservation</i> , 2013, 17, 1209-1219.	0.8	3
126	The spatial scaling of beta diversity. <i>Global Ecology and Biogeography</i> , 2013, 22, 639-647.	2.7	181



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127	Species Traits Predict Assemblage Dynamics at Ephemeral Resource Patches Created by Carrion. PLoS ONE, 2013, 8, e53961.	1.1	50
128	Notes on the Distribution of 31 Species of Sarcophagidae (Diptera) in Australia, Including new Records in Australia for Eight Species. Transactions of the Royal Society of South Australia, 2012, 136, 56-64.	0.1	1
129	Community composition of carrion-breeding blowflies (Diptera: Calliphoridae) along an urban gradient in south-eastern Australia. Landscape and Urban Planning, 2012, 106, 183-190.	3.4	41
130	Experimental reduction of native vertebrate grazing and addition of logs benefit beetle diversity at multiple scales. Journal of Applied Ecology, 2011, 48, 943-951.	1.9	66
131	Morphological traits as predictors of diet and microhabitat use in a diverse beetle assemblage. Biological Journal of the Linnean Society, 2011, 102, 301-310.	0.7	63
132	Fine-scale heterogeneity in beetle assemblages under co-occurring <i>Eucalyptus</i> in the same subgenus. Journal of Biogeography, 2010, 37, 1927-1937.	1.4	10
133	Conserving ground-dwelling beetles in an endangered woodland community: Multi-scale habitat effects on assemblage diversity. Biological Conservation, 2009, 142, 1701-1709.	1.9	60
134	Mosquito (Diptera: Culicidae) and Rainfall Associations with Arbovirus Disease in Eastern Victoria. Transactions of the Royal Society of South Australia, 2009, 133, 257-264.	0.1	4
135	A new species of sucking louse (Phthiraptera: Anoplura) from Australia, and a key to the Australian species of Hoplopleura. Zootaxa, 2008, 1679, 55.	0.2	9
136	Width as an alternative measurement to length for post-mortem interval estimations using <i>Calliphora augur</i> (Diptera: Calliphoridae) larvae. Forensic Science International, 2006, 159, 158-167.	1.3	48
137	Spatial and temporal definition of <i>Ochlerotatus camptorhynchus</i> (Thomson) (Diptera: Culicidae) in the Gippsland Lakes system of eastern Victoria. Australian Journal of Entomology, 2004, 43, 16-22.	1.1	17
138	Outfoxing the fox: Effect of prey odor on fox behavior in a pastoral landscape. Conservation Science and Practice, 0, , .	0.9	1