David Bilton

List of Publications by Year
in descending order

130 papers	5,897 citations	101535 36 h-index	79691 73 g-index
131 all docs	131 docs citations	131 times ranked	6841 citing authors

#	Article	IF	Citations
1	Cryptic lineages, cryptic barriers: historical seascapes and oceanic fronts drive genetic diversity in supralittoral rockpool beetles (Coleoptera: Hydraenidae). Zoological Journal of the Linnean Society, 2022, 196, 740-756.	2.3	5
2	A new species of Protozantaena Perkins, 1997 from the Great Escarpment of South Africa (Coleoptera,) Tj ETQq0 0 0 rgBT /Overlock 10	0.5	3
3	Loss of heat acclimation capacity could leave subterranean specialists highly sensitive to climate change. Animal Conservation, 2021, 24, 482-490.	2.9	25
4	Riberazantaena, a new hydraenid genus from the Eastern Arc Mountains of Tanzania (Coleoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	4
5	Plasticity of thermal performance curves in a narrow range endemic water beetle. Journal of Thermal Biology, 2021, 102, 103113.	2.5	5
6	The structure of tardigrade communities at fine spatial scales in an AndeanPolylepisforest. Neotropical Biodiversity, 2021, 7, 443-454.	0.5	3
7	Do differences in developmental mode shape the potential for local adaptation?. Ecology, 2020, 101, e02942.	3.2	6
8	Universal metabolic constraints shape the evolutionary ecology of diving in animals. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200488.	2.6	18
9	The call of the squeak beetle: bioacoustics ofHygrobia hermanni(Fabricius, 1775) revisited (Coleoptera: Hygrobiidae). Aquatic Insects, 2020, 41, 131-144.	0.9	2
10	What should we call the Levant mole? Unravelling the systematics and demography of Talpa levantis Thomas, 1906 sensu lato (Mammalia: Talpidae). Mammalian Biology, 2020, 100, 1-18.	1.5	4
11	Taxonomic revision of the Afrotropical Agabus raffrayi species group with the description of four new species (Coleoptera, Dytiscidae). ZooKeys, 2020, 963, 45-79.	1.1	1
12	Phylogenomics of the superfamily Dytiscoidea (Coleoptera: Adephaga) with an evaluation of phylogenetic conflict and systematic error. Molecular Phylogenetics and Evolution, 2019, 135, 270-285.	2.7	36
13	Two new Mesoceration Janssens, 1967 from the Piketberg, South Africa (Coleoptera, Hydraenidae). Zootaxa, 2019, 4555, 268.	0.5	2
14	Water Beetles as Models in Ecology and Evolution. Annual Review of Entomology, 2019, 64, 359-377.	11.8	39
15	Deeper knowledge of shallow waters: reviewing the invertebrate fauna of southern African temporary wetlands. Hydrobiologia, 2019, 827, 89-121.	2.0	41
16	Does plasticity in thermal tolerance trade off with inherent tolerance? The influence of setal tracheal gills on thermal tolerance and its plasticity in a group of European diving beetles. Journal of Insect Physiology, 2018, 106, 163-171.	2.0	24
17	A new humicolous Parhydraena dâ€™Orchymont, 1937 from South Africa (Coleoptera, Hydraenidae). Zootaxa, 2018, 4378, 284-288.	0.5	1
18	A new species of Leielmis DelÃ¨ve, 1964, with a revised key to members of the genus (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	1

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19	Micro-habitat distribution drives patch quality for sub-tropical rocky plateau amphibians in the northern Western Ghats, India. PLoS ONE, 2018, 13, e0194810.	2.5	12
20	A revision of the South African riffle beetle genus Leielmis DelÃ¨ve, 1964 (Coleoptera: Elmidae). Zootaxa, 2017, 4254, 255.	0.5	3
21	Water beetles from the Bokkeveld Plateau: a semi-arid hotspot of freshwater biodiversity in the Northern Cape of South Africa. Zootaxa, 2017, 4268, 191.	0.5	6
22	Metabolic and reproductive plasticity of core and marginal populations of the eurythermic saline water bug Sigara selecta (Hemiptera: Corixidae) in a climate change context. Journal of Insect Physiology, 2017, 98, 59-66.	2.0	16
23	Pleistocene range shifts, refugia and the origin of widespread species in western Palaearctic water beetles. Molecular Phylogenetics and Evolution, 2017, 114, 122-136.	2.7	18
24	Three new species of Crenitis Bedel, 1881 from South Africa, with a revised key to African species (Coleoptera: Hydrophilidae). Aquatic Insects, 2017, 38, 101-113.	0.9	2
25	The chicken or the egg? Adaptation to desiccation and salinity tolerance in a lineage of water beetles. Molecular Ecology, 2017, 26, 5614-5628.	3.9	18
26	Diversity and distribution of polyphagan water beetles (Coleoptera) in the Lake St Lucia system, South Africa. ZooKeys, 2017, 656, 51-84.	1.1	6
27	A revision of Meladema diving beetles (Coleoptera, Dytiscidae), with the description of a new species from the central Mediterranean based on molecules and morphology. ZooKeys, 2017, 702, 45-112.	1.1	4
28	Frequent discordance between morphology and mitochondrial DNA in a species group of European water beetles (Coleoptera: Dytiscidae). PeerJ, 2017, 5, e3076.	2.0	2
29	Reconstructing ancient Mediterranean crossroads in Deronectes diving beetles. Journal of Biogeography, 2016, 43, 1533-1545.	3.0	23
30	Stable isotopes and mtDNA reveal niche segregation but no evidence of intergradation along a habitat gradient in the Lesser Whitethroat complex (Sylvia curruca; Passeriformes; Aves). Journal of Ornithology, 2016, 157, 1017-1027.	1.1	6
31	Two new water beetles from the South African Cape (Coleoptera, Hydraenidae). Zootaxa, 2016, 4137, 585-91.	0.5	7
32	A new species of Anacaena Thomson, 1859 from South Africa (Coleoptera: Hydrophilidae). Zootaxa, 2016, 4139, 593.	0.5	1
33	Sexual dimorphism and sexual conflict in the diving beetleAgabus uliginosus(L.) (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	9
34	Physiological niche and geographical range in European diving beetles (Coleoptera: Dytiscidae). Biology Letters, 2016, 12, 20160130.	2.3	11
35	Molecular phylogeny of the highly disjunct cliff water beetles from South Africa and China (Coleoptera: Aspidytidae). Zoological Journal of the Linnean Society, 2016, 176, 537-546.	2.3	19
36	Predaceous water beetles (Coleoptera, Hydradephaga) of the Lake St Lucia system, South Africa: biodiversity, community ecology and conservation implications. ZooKeys, 2016, 595, 85-135.	1.1	13

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37	Observed shifts in the contact zone between two forms of the diving beetleHydroporus memnoniusare consistent with predictions from sexual conflict. PeerJ, 2016, 4, e2089.	2.0	8
38	Aquatic insects dealing with dehydration: do desiccation resistance traits differ in species with contrasting habitat preferences?. PeerJ, 2016, 4, e2382.	2.0	22
39	A review of the Canthyporus exilis group, with the description of two new species (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	5
40	The Comparative Osmoregulatory Ability of Two Water Beetle Genera Whose Species Span the Fresh-Hypersaline Gradient in Inland Waters (Coleoptera: Dytiscidae, Hydrophilidae). PLoS ONE, 2015, 10, e0124299.	2.5	33
41	A new species of Yola Gozis, 1886 from the Western Cape of South Africa (Coleoptera: Dytiscidae:) Tj ETQq1 1 0.784314 rgBT /Overlo	0.5	2
42	New species and new records of Mesoceration Janssens, 1967 from South Africa (Coleoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	0.5	3
43	Oxygen limited thermal tolerance is seen in a plastron breathing insect, and can be induced in a bimodal gas exchanger. Journal of Experimental Biology, 2015, 218, 2083-8.	1.7	41
44	Home advantage? Decomposition across the freshwater-estuarine transition zone varies with litter origin and local salinity. Marine Environmental Research, 2015, 110, 1-7.	2.5	14
45	How well do protected area networks support taxonomic and functional diversity in non-target taxa? The case of Iberian freshwaters. Biological Conservation, 2015, 187, 134-144.	4.1	29
46	Capelatus prykei gen. et sp.n. (Coleoptera: Dytiscidae: Copelatinae) â€“ a phylogenetically isolated diving beetle from the Western Cape of South Africa. Systematic Entomology, 2015, 40, 520-531.	3.9	15
47	Two New Species of Madicolous Water Beetle from South Africa (Coleoptera: Hydraenidae). African Invertebrates, 2015, 56, 181-190.	0.5	5
48	Ecological Approaches to Coastal Risk Mitigation. , 2015, , 171-236.		6
49	New species and new records of Pterosthetops: eumadicolous water beetles of the South African Cape (Coleoptera, Hydraenidae). Zootaxa, 2014, 3811, 438.	0.5	10
50	Laccobius leopardus sp. nov. from the Western Cape of South Africa (Coleoptera: Hydrophilidae) . Zootaxa, 2014, 3835, 397.	0.5	5
51	Two new water beetles from the Hantamsberg, an inselberg in the Northern Cape of South Africa (Coleoptera, Hydraenidae). Zootaxa, 2014, 3887, 471-80.	0.5	9
52	Thermal niche evolution and geographical range expansion in a species complex of western Mediterranean diving beetles. BMC Evolutionary Biology, 2014, 14, 187.	3.2	27
53	Intercolony movement of preâ€breeding seabirds over oceanic scales: implications of cryptic ageâ€classes for conservation and metapopulation dynamics. Diversity and Distributions, 2014, 20, 160-168.	4.1	25
54	The consequences of doing nothing: The effects of seawater flooding on coastal zones. Coastal Engineering, 2014, 87, 169-182.	4.0	55

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55	Whatâ€™s in a name? What have taxonomy and systematics ever done for us?. Journal of Biological Education, 2014, 48, 116-118.	1.5	15
56	The Conservation of Predaceous Diving Beetles: Knowns, Unknowns and Anecdotes. , 2014, , 437-462.		19
57	Dispersal in Dytiscidae. , 2014, , 387-407.		24
58	Riding the storm: the response of Plantago lanceolata to simulated tidal flooding. Journal of Coastal Conservation, 2013, 17, 799-803.	1.6	10
59	Consistency of fuzzy rules in an ecological context. Ecological Modelling, 2013, 251, 187-198.	2.5	4
60	Respiratory control in aquatic insects dictates their vulnerability to global warming. Biology Letters, 2013, 9, 20130473.	2.3	111
61	Does Ecophysiology Determine Invasion Success? A Comparison between the Invasive Boatman Trichocorixa verticalis verticalis and the Native Sigara lateralis (Hemiptera, Corixidae) in South-West Spain. PLoS ONE, 2013, 8, e63105.	2.5	20
62	<i>Hydraena lotti</i> sp. nov., a new member of the â€œ<i>Haenydra</i>â€•lineage from the Peloponnese (Greece), with additional records of <i>Hydraena</i> species in the region (Coleoptera, Hydraenidae). Zootaxa, 2013, 3637, 29-38.	0.5	4
63	Prosthetops wolfbergensis sp. nov.â€”a giant amongst the â€˜minute moss beetlesâ€™, with new data on other members of the genus (Coleoptera, Hydraenidae). Zootaxa, 2013, 3666, 345.	0.5	6
64	Crenitis bicolor sp. n. from the Kamiesberg of South Africa (Coleoptera: Hydrophilidae). Zootaxa, 2013, 3626, 589-592.	0.5	8
65	Description of the male of Sebasthetops omaliniformis JÃch, 1998 â€”a phylogenetically isolated water beetle from South Africa, with notes on its ecology (Coleoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	8
66	<p class="HeadingRunIn"><strong>A taxonomic revision of South African Sharphydrus, with the description of two new species (Coleoptera: Dytiscidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.5	6
67	The Effect of Geographical Scale of Sampling on DNA Barcoding. Systematic Biology, 2012, 61, 851-869.	5.6	386
68	The Larva ofHydroporus zimmermanniJ. MÃ¼ller, 1926 (Coleoptera: Dytiscidae: Hydroporinae), with Notes on Its Ecology and a Review of Described Larvae ofHydroporusClairville. The Coleopterists Bulletin, 2012, 66, 81-91.	0.2	0
69	Life-history and thermal tolerance traits display different thermal plasticities and relationships with temperature in the marine polychaete Ophryotrocha labronica La Greca and Bacci (Dorvilleidae). Journal of Experimental Marine Biology and Ecology, 2012, 438, 109-117.	1.5	18
70	Assessing the Congruence of Thermal Niche Estimations Derived from Distribution and Physiological Data. A Test Using Diving Beetles. PLoS ONE, 2012, 7, e48163.	2.5	33
71	Stictonectes rebeccae sp. n. from the Iberian Peninsula, with notes on its phylogenetic position (Coleoptera, Dytiscidae). Zootaxa, 2012, 3188, 42.	0.5	2
72	Two new species of Parhydraenini from South Africa (Coleoptera: Hydraenidae). Zootaxa, 2012, 3342, 51.	0.5	2

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73	The comparative biology of diving in two genera of European Dytiscidae (Coleoptera). Journal of Evolutionary Biology, 2012, 25, 329-341.	1.7	12
74	Evaluating drivers of vulnerability to climate change: a guide for insect conservation strategies. Global Change Biology, 2012, 18, 2135-2146.	9.5	63
75	Dispersal ability rather than ecological tolerance drives differences in range size between lentic and lotic water beetles (Coleoptera: Hydrophilidae). Journal of Biogeography, 2012, 39, 984-994.	3.0	94
76	Water beetle biodiversity in Mediterranean standing waters: assemblage composition, environmental drivers and nestedness patterns. Insect Conservation and Diversity, 2012, 5, 146-158.	3.0	24
77	Population genetic structure and longâ€distance dispersal among seabird populations: Implications for colony persistence. Molecular Ecology, 2012, 21, 2863-2876.	3.9	46
78	Oxygen supply in aquatic ectotherms: Partial pressure and solubility together explain biodiversity and size patterns. Ecology, 2011, 92, 1565-1572.	3.2	254
79	Can Oxygen Set Thermal Limits in an Insect and Drive Gigantism?. PLoS ONE, 2011, 6, e22610.	2.5	90
80	Spatio-temporal nested patterns in macroinvertebrate assemblages across a pond network with a wide hydroperiod range. Oecologia, 2011, 166, 469-483.	2.0	42
81	Characterisation and predicted genome locations of Leachâ€™s storm-petrel (Oceanodroma leucorhoa) microsatellite loci (Procellariidae, Aves). Conservation Genetics Resources, 2011, 3, 711-716.	0.8	2
82	Effects of formalin preservation on stable carbon and nitrogen isotope signatures in Calanoid copepods: implications for the use of Continuous Plankton Recorder Survey samples in stable isotope analyses. Rapid Communications in Mass Spectrometry, 2011, 25, 1794-1800.	1.5	25
83	A heuristic approach to predicting water beetle diversity in temporary and fluctuating waters. Ecological Modelling, 2010, 221, 1451-1462.	2.5	27
84	What determines a speciesâ€™ geographical range? Thermal biology and latitudinal range size relationships in European diving beetles (Coleoptera: Dytiscidae). Journal of Animal Ecology, 2010, 79, 194-204.	2.8	280
85	Reduced salinities compromise the thermal tolerance of hypersaline specialist diving beetles. Physiological Entomology, 2010, 35, 265-273.	1.5	28
86	Ecology and conservation status of temporary and fluctuating ponds in two areas of southern England. Aquatic Conservation: Marine and Freshwater Ecosystems, 2009, 19, 134-146.	2.0	32
87	Macrophysiology: A Conceptual Reunification. American Naturalist, 2009, 174, 595-612.	2.1	298
88	Detection of fungal 18S rRNA sequences in conjunction with marine nematode 18S rRNA amplicons. Aquatic Biology, 2009, 5, 149-155.	1.4	14
89	Thermal tolerance and geographical range size in the Agabus brunneus group of European diving beetles (Coleoptera: Dytiscidae). Journal of Biogeography, 2008, 35, 295-305.	3.0	39
90	Evaluation of combined morphological and molecular techniques for marine nematode (Terschellingia spp.) identification. Marine Biology, 2008, 154, 509-518.	1.5	82

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91	Inter- and intrasexual dimorphism in the diving beetle Hydroporus memnonius Nicolai (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	17
92	Thermal tolerance, acclimatory capacity and vulnerability to global climate change. Biology Letters, 2008, 4, 99-102.	2.3	292
93	Are the endemic water beetles of the Iberian Peninsula and the Balearic Islands effectively protected?. Biological Conservation, 2008, 141, 1612-1627.	4.1	75
94	PHYLOGENETIC RELATEDNESS AND ECOLOGICAL INTERACTIONS DETERMINE ANTIPREDATOR BEHAVIOR. Ecology, 2007, 88, 2462-2467.	3.2	47
95	By wind, wings or water: body size, dispersal and range size in aquatic invertebrates. , 2007, , 186-209.		35
96	Exploitation of archived marine nematodes ? a hot lysis DNA extraction protocol for molecular studies. Zoologica Scripta, 2007, 36, 93-98.	1.7	22
97	Range size in North American Enallagma damselflies correlates with wing size. Freshwater Biology, 2007, 52, 471-477.	2.4	60
98	Do developmental mode and dispersal shape abundance?occupancy relationships in marine macroinvertebrates?. Journal of Animal Ecology, 2007, 76, 695-702.	2.8	43
99	The diving response of a diving beetle: effects of temperature and acidification. Journal of Zoology, 2007, 273, 289-297.	1.7	23
100	How wide to cast the net? Cross-taxon congruence of species richness, community similarity and indicator taxa in ponds. Freshwater Biology, 2006, 51, 578-590.	2.4	129
101	Can taxonomic distinctness assess anthropogenic impacts in inland waters? A case study from a Mediterranean river basin. Freshwater Biology, 2006, 51, 1744-1756.	2.4	67
102	Development and evaluation of a DNA-barcoding approach for the rapid identification of nematodes. Marine Ecology - Progress Series, 2006, 320, 1-9.	1.9	138
103	Combined morphological and molecular analysis of individual nematodes through short-term preservation in formalin. Molecular Ecology Notes, 2005, 5, 965-968.	1.7	8
104	Questioning attitudes in freshwater ecology?. Global Ecology and Biogeography, 2005, 14, 295-296.	5.8	0
105	Unravelling nestedness and spatial pattern in pond assemblages. Journal of Animal Ecology, 2005, 74, 41-49.	2.8	98
106	Does macrophyte fractal complexity drive invertebrate diversity, biomass and body size distributions?. Oikos, 2005, 111, 279-290.	2.7	159
107	Larval Morphology of Aspidytidae (Coleoptera: Adephaga) and Its Phylogenetic Implications. Annals of the Entomological Society of America, 2005, 98, 417-430.	2.5	29
108	Evolution, mitochondrial DNA phylogeny and systematic position of the Macaronesian endemic Hydrotarsus FalkenstrÃ¶m (Coleoptera: Dytiscidae). Systematic Entomology, 2003, 28, 493-508.	3.9	27

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109	The net result: evaluating species richness extrapolation techniques for littoral pond invertebrates. Freshwater Biology, 2003, 48, 1756-1764.	2.4	58
110	Mitochondrial DNA phylogeography and population history of Meladema diving beetles on the Atlantic Islands and in the Mediterranean basin (Coleoptera, Dytiscidae). Molecular Ecology, 2002, 12, 153-167.	3.9	52
111	Are distribution patterns linked to dispersal mechanism? An investigation using pond invertebrate assemblages. Freshwater Biology, 2002, 47, 1571-1581.	2.4	93
112	Genetic population structure and dispersal in Atlantic Island caddisflies. Freshwater Biology, 2002, 47, 1642-1650.	2.4	26
113	Dispersal, Genetic Differentiation and Speciation in Estuarine Organisms. Estuarine, Coastal and Shelf Science, 2002, 55, 937-952.	2.1	198
114	Dispersal in Freshwater Invertebrates. Annual Review of Ecology, Evolution, and Systematics, 2001, 32, 159-181.	6.7	716
115	Population structure and dispersal in the Canary Island caddisfly Mesophylax aspersus (Trichoptera,) Tj ETQq1 1 0.784314 rgBT /Over	2.6	36
116	Larval Morhology ofHydrotarsusFalkenstrÃ¶m: Generic Characteristics, Description ofH. Compunctus(Wollaston), and Analysis of Relationships with Other Members of the Tribe Hydroporini (Coleoptera: Dytiscidae, Hydroporinae). The Coleopterists Bulletin, 2001, 55, 341-349.	0.2	6
117	Size, permanence and the proportion of predators in ponds. Fundamental and Applied Limnology, 2001, 151, 451-458.	0.7	40
118	Global and regional patterns in lotic meiofauna. Freshwater Biology, 2000, 44, 123-134.	2.4	43
119	Genetic differentiation and natural hybridization between two morphological forms of the common woodlouse, Oniscus asellus Linnaeus 1758. Heredity, 1999, 82, 462-469.	2.6	7
120	The impact of encroachment and bankside development on the habitat complexity and supralittoral invertebrate communities of the Thames Estuary foreshore. Aquatic Conservation: Marine and Freshwater Ecosystems, 1999, 9, 237-247.	2.0	31
121	Mediterranean Europe as an area of endemism for small mammals rather than a source for northwards postglacial colonization. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 1219-1226.	2.6	278
122	A North Africanâ€“European transition fauna: water beetles (Coleoptera) from the Ebro delta and other Mediterranean coastal wetlands in the Iberian peninsula. Aquatic Conservation: Marine and Freshwater Ecosystems, 1996, 6, 121-140.	2.0	11
123	Phylogeography and recent historical biogeography of Hydroporus glabriusculus AubÃ© (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Over 293-307.	1.6	11
124	Intraspecific variation in the terrestrial isopod Oniscus asellus Linnaeus, 1758 (Crustacea: Isopoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	4
125	Sex chromosome systems of European noterid beetles (Coleoptera, Adephaga: Noteridae). Insect Systematics and Evolution, 1992, 23, 115-119.	0.7	5
126	Genetic population structure of the Postglacial relict diving beetle Hydroporus glabriusculus AubÃ© (Coleoptera: Dytiscidae). Heredity, 1992, 69, 503-511.	2.6	24

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127	A new species of Oniscus Linnaeus, 1758 (Crustacea: Isopoda: Oniscidea) from northern Spain, with a revised key to members of the genus. Zoological Journal of the Linnean Society, 1992, 104, 117-125.	2.3	3
128	A classification and evaluation of Irish water beetle assemblages. Aquatic Conservation: Marine and Freshwater Ecosystems, 1992, 2, 185-208.	2.0	55
129	Classification of water beetle assemblages in arable fenland and ranking of sites in relation to conservation value. Freshwater Biology, 1989, 22, 343-354.	2.4	94
130	Differentiation of South African coastal rock pool Ochthebius is associated with major ocean currents (Coleoptera: Hydraenidae). Acta Entomologica Musei Nationalis Pragae, 0, , 253-260.	0.5	3