Stuart B Piertney

List of Publications by Year
in descending order

118 papers	5,092 citations	87843 38 h-index	102432 66 g-index
120 all docs	120 docs citations	120 times ranked	5796 citing authors

#	Article	IF	Citations
1	The evolutionary ecology of the major histocompatibility complex. Heredity, 2006, 96, 7-21.	1.2	746
2	Local genetic structure in red grouse (Lagopus lagopus scoticus): evidence from microsatellite DNA markers. Molecular Ecology, 1998, 7, 1645-1654.	2.0	172
3	Ecological, morphological and genetic divergence of sympatric North Atlantic killer whale populations. Molecular Ecology, 2009, 18, 5207-5217.	2.0	156
4	Major histocompatibility complex (MHC) heterozygote superiority to natural multi-parasite infections in the water vole (Arvicola terrestris). Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1119-1128.	1.2	154
5	Characterization and PCR multiplexing of novel highly variable tetranucleotide Atlantic salmon (Salmo salar L.) microsatellites. Molecular Ecology Notes, 2004, 4, 160-162.	1.7	146
6	Rapid diagnostic PCR assays for members of the Culicoides obsoletus and Culicoides pulicaris species complexes, implicated vectors of bluetongue virus in Europe. Veterinary Microbiology, 2007, 124, 82-94.	0.8	137
7	Testosterone, immunocompetence, and honest sexual signaling in male red grouse. Behavioral Ecology, 2004, 15, 930-937.	1.0	127
8	Inbreeding depression and male fitness in black grouse. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 711-715.	1.2	125
9	Fine-scale genetic structuring on Manacus manacus leks. Nature, 2000, 408, 352-353.	13.7	102
10	Similar estimates of population genetic composition and sex ratio derived from carcasses and faeces of Eurasian otter Lutra lutra. Molecular Ecology, 2002, 12, 275-282.	2.0	100
11	Inferring local adaptation from QST?FSTcomparisons: neutral genetic and quantitative trait variation in European populations of great snipe. Journal of Evolutionary Biology, 2007, 20, 1563-1576.	0.8	89
12	Genetic differentiation among North Atlantic killer whale populations. Molecular Ecology, 2011, 20, 629-641.	2.0	86
13	Physiological Stress Mediates the Honesty of Social Signals. PLoS ONE, 2009, 4, e4983.	1.1	86
14	Polymorphic microsatellite DNA markers in black grouse (Tetrao tetrix). Molecular Ecology Notes, 2001, 1, 303-304.	1.7	80
15	Honest sexual signalling mediated by parasite and testosterone effects on oxidative balance. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1093-1100.	1.2	80
16	Landscape barriers reduce gene flow in an invasive carnivore: geographical and local genetic structure of American mink in Scotland. Molecular Ecology, 2009, 18, 1601-1615.	2.0	77
17	Physiological stress links parasites to carotenoid-based colour signals. Journal of Evolutionary Biology, 2010, 23, 643-650.	0.8	75
18	Selection Maintains MHC Diversity through a Natural Population Bottleneck. Molecular Biology and Evolution, 2012, 29, 1713-1720.	3.5	71

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19	Parentage assignment detects frequent and largeâ€scale dispersal in water voles. Molecular Ecology, 2003, 12, 1939-1949.	2.0	70
20	Sex identification of the Eurasian otter Lutra lutra by PCR typing of spraints. Conservation Genetics, 2000, 1, 181-183.	0.8	66
21	Ecoâ€evolutionary dynamics in response to selection on lifeâ€history. Ecology Letters, 2013, 16, 754-763.	3.0	63
22	Elevated spring testosterone increases parasite intensity in male red grouse. Behavioral Ecology, 2006, 17, 117-125.	1.0	62
23	Phylogenetic relationships among hadal amphipods of the Superfamily Lysianassoidea: Implications for taxonomy and biogeography. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 105, 119-131.	0.6	61
24	Spatioâ€temporal variation in the strength and mode of selection acting on major histocompatibility complex diversity in water vole (Arvicola terrestris) metapopulations. Molecular Ecology, 2009, 18, 80-92.	2.0	59
25	Spatial arrangement of kin affects recruitment success in young male red grouse. Oikos, 2000, 90, 261-270.	1.2	58
26	Widespread gene flow and high genetic variability in populations of water voles Arvicola terrestris in patchy habitats. Molecular Ecology, 2006, 15, 1455-1466.	2.0	56
27	Oxidative stress and the effect of parasites on a carotenoid-based ornament. Journal of Experimental Biology, 2010, 213, 400-407.	0.8	56
28	Impacts of climate, host and landscape factors on Culicoides species in Scotland. Medical and Veterinary Entomology, 2012, 26, 168-177.	0.7	56
29	Fineâ€scale population epigenetic structure in relation to gastrointestinal parasite load in red grouse (Lagopus lagopus scotica). Molecular Ecology, 2014, 23, 4256-4273.	2.0	51
30	Separating Behavioral and Physiological Mechanisms in Testosteroneâ€Mediated Tradeâ€Offs. American Naturalist, 2005, 166, 158-168.	1.0	47
31	Microsatellite DNA polymorphism confirms reproductive isolation and reveals differences in population genetic structure of cryptic pipistrelle bat species. Biological Journal of the Linnean Society, 2007, 90, 539-550.	0.7	47
32	Title is missing!. Conservation Genetics, 2002, 3, 15-28.	0.8	46
33	Spatial distribution of genetic relatedness in a moorland population of red grouse (Lagopus lagopus) Tj ETQq1 1 0.784314 rgBT /Over	0.7	45
34	Microsatellite and mitochondrial DNA homogeneity among phenotypically diverse crossbill taxa in the UK. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1511-1517.	1.2	45
35	Genetic diversity in the Eurasian otter, Lutra lutra, in Scotland. Evidence from microsatellite polymorphism. Biological Journal of the Linnean Society, 1999, 68, 73-86.	0.7	42
36	DNA-based identification of salmonid prey species in seal faeces. Journal of Zoology, 2005, 266, 275-281.	0.8	42

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37	Phylogeographic structure and postglacial evolutionary history of water voles (Arvicola terrestris) in the United Kingdom. Molecular Ecology, 2005, 14, 1435-1444.	2.0	41
38	MATRILINEAL GENETIC STRUCTURE AND FEMALE-MEDIATED GENE FLOW IN RED GROUSE (LAGOPUS LAGOPUS) Tj ETQq0 0 0 rgBT /Ove Evolution, 2000, 54, 279.	1.1	39
39	The supergiant amphipod Alicella gigantea (Crustacea: Alicellidae) from hadal depths in the Kermadec Trench, SW Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 92, 107-113.	0.6	39
40	Testing the interactive effects of testosterone and parasites on carotenoidâ€based ornamentation in a wild bird. Journal of Evolutionary Biology, 2010, 23, 902-913.	0.8	38
41	A systematic review of phenotypic responses to between-population outbreeding. Environmental Evidence, 2013, 2, 13.	1.1	38
42	Signatures of balancing selection in toll-like receptor (TLRs) genes â€“ novel insights from a free-living rodent. Scientific Reports, 2018, 8, 8361.	1.6	38
43	Population introgression and differentiation in the great cormorant Phalacrocorax carbo in Europe. Molecular Ecology, 1998, 7, 329-338.	2.0	37
44	Isolation and characterization of microsatellite loci in the freshwater gastropod, Biomphalaria glabrata, an intermediate host for Schistosoma mansoni. Molecular Ecology, 1999, 8, 2149-2151.	2.0	37
45	Temporal changes in kin structure through a population cycle in a territorial bird, the red grouse Lagopus lagopus scoticus. Molecular Ecology, 2008, 17, 2544-2551.	2.0	37
46	Metapopulation genetic structure in the water vole, Arvicola terrestris, in NE Scotland. Biological Journal of the Linnean Society, 1999, 68, 159-171.	0.7	35
47	Experimentally increased aggressiveness reduces population kin structure and subsequent recruitment in red grouse Lagopus lagopus scoticus. Journal of Animal Ecology, 2005, 74, 488-497.	1.3	33
48	Fine-scale genetic structure of bottlenose dolphins, Tursiops truncatus, in Atlantic coastal waters of the Iberian Peninsula. Hydrobiologia, 2011, 670, 111-125.	1.0	33
49	Comparison of the cost of short flights in a nectarivorous and a non-nectarivorous bird. Journal of Experimental Biology, 2004, 207, 3959-3968.	0.8	32
50	Phylogenetic analysis indicates thatCulicoides dewulfishould not be considered part of theCulicoides obsoletuscomplex. Bulletin of Entomological Research, 2009, 99, 371-375.	0.5	32
51	Characterising functionally important and ecologically meaningful genetic diversity using a candidate gene approach. Genetica, 2010, 138, 419-432.	0.5	32
52	Development of a real-time PCR assay for detection of Mytilus species specific alleles: Application to a sampling survey in Scotland. Journal of Experimental Marine Biology and Ecology, 2008, 367, 253-258.	0.7	31
53	Morphological and ontogenetic stratification of abyssal and hadal Eurythenes gryllus sensu lato (Amphipoda: Lysianassoidea) from the Peruâ€“Chile Trench. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 109, 91-98.	0.6	30
54	Microgeographic genetic differentiation in the intertidal isopod Jaera albifrons Leach. II. Temporal variation in allele frequencies. Journal of Experimental Marine Biology and Ecology, 1995, 188, 277-288.	0.7	29

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55	Isolation and characterization of a MHC class II DRB locus in the European water vole (Arvicola) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.2	28
56	Phylogeography of the European capercaillie (Tetrao urogallus) and its implications for conservation. Journal Fur Ornithologie, 2007, 148, 269-274.	1.2	27
57	Using population genetic structure of an invasive mammal to target control efforts â€“ An example of the American mink in Scotland. Biological Conservation, 2013, 167, 35-42.	1.9	27
58	Discrimination ofCulicoidesMidge Larvae Using Multiplex Polymerase Chain Reaction Assays Based on DNA Sequence Variation at the Mitochondrial Cytochrome C Oxidase I Gene. Journal of Medical Entomology, 2009, 46, 610-614.	0.9	26
59	Frontiers in hostâ€“parasite ecology and evolution. Molecular Ecology, 2011, 20, 869-871.	2.0	26
60	Pronounced genetic structure and low genetic diversity in European red-billed chough (Pyrrhocorax) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	25
61	Phylogenetic relationships among cirrate octopods (Mollusca: Cephalopoda) resolved using mitochondrial 16S ribosomal DNA sequences. Molecular Phylogenetics and Evolution, 2003, 27, 348-353.	1.2	24
62	Incursion and range expansion in the bluetongue vector Culicoides imicola in the Mediterranean basin: a phylogeographic analysis. Medical and Veterinary Entomology, 2008, 22, 340-351.	0.7	24
63	Spatial distribution of mitochondrial and microsatellite DNA variation in Daubenton's bat within Scotland. Molecular Ecology, 2008, 17, 3243-3258.	2.0	24
64	Survey of mussel (Mytilus)species at Scottish shellfish farms. Aquaculture Research, 2009, 40, 1715-1722.	0.9	24
65	Transcriptomic response of red grouse to gastroâ€intestinal nematode parasites and testosterone: implications for population dynamics. Molecular Ecology, 2011, 20, 920-931.	2.0	23
66	Environmental and genetic influences on body mass and resting metabolic rates (RMR) in a natural population of weasel Mustela nivalis. Molecular Ecology, 2012, 21, 1283-1293.	2.0	23
67	Evidence of the phenotypic expression of a lethal recessive allele under inbreeding in a wild population of conservation concern. Journal of Animal Ecology, 2016, 85, 879-891.	1.3	22
68	Individual variation in dispersal associated with phenotype influences fine-scale genetic structure in weasels. Conservation Genetics, 2013, 14, 499-509.	0.8	21
69	Disease transmission in an extreme environment: Nematode parasites infect reindeer during the Arctic winter. International Journal for Parasitology, 2012, 42, 789-795.	1.3	20
70	Genomeâ€wide association and genome partitioning reveal novel genomic regions underlying variation in gastrointestinal nematode burden in a wild bird. Molecular Ecology, 2015, 24, 4175-4192.	2.0	20
71	Characterization of microsatellite DNA markers in the white-bearded manakin (Manacus manacus). Molecular Ecology Notes, 2002, 2, 504-505.	1.7	19
72	Inferring Pattern and Process in Small Mammal Metapopulations. , 2004, , 515-540.		19

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73	Estimating demographic contributions to effective population size in an ageâ€structured wild population experiencing environmental and demographic stochasticity. Journal of Animal Ecology, 2017, 86, 1082-1093.	1.3	19
74	Anopheles gambiae collagen IV genes: cloning, phylogeny and midgut expression associated with blood feeding and Plasmodium infection. International Journal for Parasitology, 2003, 33, 681-690.	1.3	18
75	Demographic and genetic structure of fossorial water voles (Arvicola terrestris) on Scottish islands. Journal of Zoology, 2003, 259, 23-29.	0.8	18
76	Adaptive and neutral genetic differentiation among Scottish and endangered Irish red grouse (Lagopus lagopus scotica). Conservation Genetics, 2016, 17, 615-630.	0.8	18
77	Mixed Leptospira Infections in a Diverse Reservoir Host Community, Madagascar, 2013â€“2015. Emerging Infectious Diseases, 2018, 24, 1138-1140.	2.0	18
78	Scavenging amphipods from the Wallaby-Zenith Fracture Zone: Extending the hadal paradigm beyond subduction trenches. Marine Biology, 2021, 168, 1.	0.7	17
79	Connectivity and Dispersal Patterns of Protected Biogenic Reefs: Implications for the Conservation of Modiolus modiolus (L.) in the Irish Sea. PLoS ONE, 2015, 10, e0143337.	1.1	17
80	Characterization of polymorphic microsatellite DNA markers in the ruff (Philomachus pugnax). Molecular Ecology Notes, 2002, 2, 276-277.	1.7	17
81	Identification of genes responding to nematode infection in red grouse. Molecular Ecology Resources, 2011, 11, 305-313.	2.2	16
82	Resolving patterns of population genetic and phylogeographic structure to inform control and eradication initiatives for brown rats Rattus norvegicus on South Georgia. Journal of Applied Ecology, 2016, 53, 332-339.	1.9	16
83	The role of parasiteâ€driven selection in shaping landscape genomic structure in red grouse (Lagopus lagopus scotica). Molecular Ecology, 2016, 25, 324-341.	2.0	16
84	The use and abuse of microsatellite DNA markers in conservation biology. Wildlife Biology, 2003, 9, 243-250.	0.6	15
85	Major histocompatibility complex B-LB gene variation in red grouseLagopus lagopus scoticus. Wildlife Biology, 2003, 9, 251-259.	0.6	15
86	Mytilus species under rope culture in Scotland: implications for management. Aquaculture International, 2009, 17, 437-448.	1.1	12
87	Microbiome composition within a sympatric species complex of intertidal isopods (Jaera albifrons). PLoS ONE, 2018, 13, e0202212.	1.1	12
88	Interspecific Comparisons of Genetic Population Structure in Members of the Jaera Albifrons Species Complex. Journal of the Marine Biological Association of the United Kingdom, 1997, 77, 77-93.	0.4	11
89	Microsatellite markers for the fossa (Cryptoprocta ferox). Molecular Ecology, 2000, 9, 489-490.	2.0	11
90	Spatial association of nest construction by brown trout Salmo trutta. Journal of Fish Biology, 2011, 78, 713-725.	0.7	11

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91	Population genetic structure of the abyssal grenadier (Coryphaenoides armatus) around the mid-Atlantic ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 98, 431-437.	0.6	11
92	Roosting Habits of Daubenton's Bat (Myotis daubentonii) during Reproduction Differs between Adjacent River Valleys. Acta Chiropterologica, 2014, 16, 337-347.	0.2	11
93	Gene dynamics of toll-like receptor 4 through a population bottleneck in an insular population of water voles (Arvicola amphibius). Conservation Genetics, 2015, 16, 1181-1193.	0.8	11
94	Harvested populations are more variable only in more variable environments. Ecology and Evolution, 2016, 6, 4179-4191.	0.8	11
95	MATRILINEAL GENETIC STRUCTURE AND FEMALE-MEDIATED GENE FLOW IN RED GROUSE (LAGOPUS LAGOPUS) Tj ETQq1 1 0.784314 r Evolution, 2000, 54, 279-289.	1.1	10
96	Eco-Evolutionary Dynamics. Advances in Ecological Research, 2014, 50, 171-206.	1.4	10
97	A transcriptomic investigation of handicap models in sexual selection. Behavioral Ecology and Sociobiology, 2013, 67, 221-234.	0.6	9
98	A genetic screen of the island races of Wren Troglodytes troglodytes in the North-east Atlantic. Bird Study, 2014, 61, 135-142.	0.4	9
99	Isolation and Characterization of Microsatellite DNA Markers in the Deep-Sea AmphipodParalicella tenuipesby Illumina MiSeq Sequencing. Journal of Heredity, 2016, 107, 367-371.	1.0	9
100	Spatial distribution of genetic relatedness in a moorland population of red grouse (Lagopus lagopus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	9
101	Long-finned pilot whale population diversity and structure in Atlantic waters assessed through biogeochemical and genetic markers. Marine Ecology - Progress Series, 2015, 536, 243-257.	0.9	9
102	Characterization of polymorphic microsatellite DNA markers in the ruff (Philomachus pugnax). Molecular Ecology Notes, 2002, 2, 276-277.	1.7	8
103	Isolation and characterisation of 17 microsatellite loci for the red-billed chough (Pyrrhocorax) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	8
104	Genetic variation among endangered Irish red grouse (Lagopus lagopus hibernicus) populations: implications for conservation and management. Conservation Genetics, 2012, 13, 639-647.	0.8	8
105	Survey and management of mussel Mytilus species in Scotland. Hydrobiologia, 2011, 670, 127-140.	1.0	7
106	Digging for gold nuggets: uncovering novel candidate genes for variation in gastrointestinal nematode burden in a wild bird species. Journal of Evolutionary Biology, 2015, 28, 807-825.	0.8	7
107	Detection of High Levels of Genetic Relatedness in Rock-Populations of an Intertidal Isopod Using DNA Fingerprinting. Journal of the Marine Biological Association of the United Kingdom, 1995, 75, 967-976.	0.4	6
108	Beyond splitting hares and rabbiting on about major histocompatibility complex complexity. Molecular Ecology, 2010, 19, 4099-4101.	2.0	6

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109	Phylogeography of Rattus norvegicus in the South Atlantic Ocean. Diversity, 2016, 8, 32.	0.7	5
110	High-Throughput DNA Sequencing and the Next Generation of Molecular Markers in Wildlife Research. Wildlife Research Monographs, 2016, , 201-223.	0.4	4
111	The Development of a Molecular Assay to Distinguish Droppings of Black GrouseTetrao tetrixfrom those of CapercaillieTetrao urogallusand Red GrouseLagopus Lagopus Scoticus. Wildlife Biology, 2009, 15, 328-337.	0.6	3
112	Identification and characterisation of 17 polymorphic candidate genes for response to parasitic nematode (Trichostrongylus tenuis) infection in red grouse (Lagopus lagopus scotica). Conservation Genetics Resources, 2015, 7, 23-28.	0.4	3
113	In silico identification and characterisation of 17 polymorphic anonymous non-coding sequence markers (ANMs) for red grouse (Lagopus lagopus scotica). Conservation Genetics Resources, 2015, 7, 319-323.	0.4	2
114	Parasite-mediated selection in red grouse â€“ consequences for population dynamics and mate choice. , 2019, , 296-320.		2
115	Plasticity is a locally adapted trait with consequences for ecological dynamics in novel environments. Ecology and Evolution, 2021, 11, 10868-10879.	0.8	2
116	Foreword: The Natural Environment Research Council-Royal Society of Edinburgh Symposium on Molecular Genetics in Animal Ecology, September 1998. Biological Journal of the Linnean Society, 1999, 68, 1.	0.7	0
117	Corrigendum to Cameronet al. 2013. Ecology Letters, 2013, 16, 1330-1330.	3.0	0
118	Major Histocompatibility Complex (MHC) class II sequence polymorphism in long-finned pilot whale (Globicephala melas) from the North Atlantic. Marine Biology Research, 2016, 12, 595-607.	0.3	0