

# Brian C Husband

## List of Publications by Citations

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85  
papers

5,713  
citations

40  
h-index

75  
g-index

90  
ext. papers

6,571  
ext. citations

4.3  
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5.98  
L-index

#	Paper	IF	Citations
85	EVOLUTION OF THE MAGNITUDE AND TIMING OF INBREEDING DEPRESSION IN PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , <b>1996</b> , 50, 54-70	3.8	610
84	Multiple multilocus DNA barcodes from the plastid genome discriminate plant species equally well. <i>PLoS ONE</i> , <b>2008</b> , 3, e2802	3.7	421
83	Evolution of the Magnitude and Timing of Inbreeding Depression in Plants. <i>Evolution; International Journal of Organic Evolution</i> , <b>1996</b> , 50, 54	3.8	400
82	Evolutionary processes in aquatic plant populations. <i>Aquatic Botany</i> , <b>1993</b> , 44, 105-145	1.8	308
81	Reproductive isolation between autotetraploids and their diploid progenitors in fireweed, <i>Chamerion angustifolium</i> (Onagraceae). <i>New Phytologist</i> , <b>2004</b> , 161, 703-713	9.8	218
80	The role of triploid hybrids in the evolutionary dynamics of mixed-ploidy populations. <i>Biological Journal of the Linnean Society</i> , <b>2004</b> , 82, 537-546	1.9	190
79	Constraints on polyploid evolution: a test of the minority cytotype exclusion principle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2000</b> , 267, 217-23	4.4	167
78	Genome duplication and the evolution of physiological responses to water stress. <i>New Phytologist</i> , <b>2009</b> , 184, 721-731	9.8	164
77	Cytotype distribution at a diploid-tetraploid contact zone in <i>Chamerion</i> ( <i>Epilobium</i> ) <i>angustifolium</i> (Onagraceae). <i>American Journal of Botany</i> , <b>1998</b> , 85, 1688-1694	2.7	142
76	Applications of Flow Cytometry to Evolutionary and Population Biology. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>2007</b> , 38, 847-876	13.5	130
75	THE DISSOLUTION OF A COMPLEX GENETIC POLYMORPHISM: THE EVOLUTION OF SELF-FERTILIZATION IN <i>TRISTYLOUS EICHHORNIA PANICULATA</i> (PONTEDERIACEAE). <i>Evolution; International Journal of Organic Evolution</i> , <b>1989</b> , 43, 1398-1416	3.8	128
74	Discriminating plant species in a local temperate flora using the <i>rbcl+matK</i> DNA barcode. <i>Methods in Ecology and Evolution</i> , <b>2011</b> , 2, 333-340	7.7	125
73	Variation in Outcrossing Rates in <i>Eichhornia paniculata</i> : The Role of Demographic and Reproductive Factors*. <i>Plant Species Biology</i> , <b>1990</b> , 5, 41-55	1.3	119
72	Effects of a belowground mutualism on an aboveground mutualism. <i>Ecology Letters</i> , <b>2005</b> , 8, 218-223	10	103
71	THE EFFECT OF INBREEDING IN DIPLOID AND TETRAPLOID POPULATIONS OF <i>EPILOBIUM ANGUSTIFOLIUM</i> (ONAGRACEAE): IMPLICATIONS FOR THE GENETIC BASIS OF INBREEDING DEPRESSION. <i>Evolution; International Journal of Organic Evolution</i> , <b>1997</b> , 51, 737-746	3.8	95
70	The Incidence of Polyploidy in Natural Plant Populations: Major Patterns and Evolutionary Processes <b>2013</b> , 255-276		92
69	Mixed-Ploidy Species: Progress and Opportunities in Polyploid Research. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 1041-1055	13.1	87

68	Colonization history and population genetic structure of <i>Eichhornia paniculata</i> in Jamaica. <i>Heredity</i> , <b>1991</b> , 66, 287-296	3.6	87
67	Spatial patterns of plant diversity below-ground as revealed by DNA barcoding. <i>Molecular Ecology</i> , <b>2011</b> , 20, 1289-302	5.7	85
66	Influence of phylogeny and ploidy on species ranges of North American angiosperms. <i>Journal of Ecology</i> , <b>2009</b> , 97, 913-922	6	83
65	Pollinator-mediated assortative mating in mixed ploidy populations of <i>Chamerion angustifolium</i> (Onagraceae). <i>Oecologia</i> , <b>2006</b> , 150, 398-408	2.9	78
64	Understanding the spectacular failure of DNA barcoding in willows ( <i>Salix</i> ): does this result from a trans-specific selective sweep?. <i>Molecular Ecology</i> , <b>2014</b> , 23, 4737-56	5.7	75
63	Climatic niche differences between diploid and tetraploid cytotypes of <i>Chamerion angustifolium</i> (Onagraceae). <i>American Journal of Botany</i> , <b>2014</b> , 101, 1868-75	2.7	64
62	Potential and realized rates of vegetative reproduction in <i>Spirodela polyrhiza</i> , <i>Lemna minor</i> , and <i>Wolffia borealis</i> . <i>Aquatic Botany</i> , <b>2001</b> , 70, 79-87	1.8	64
61	Population cytotype structure in the polyploid <i>Galax urceolata</i> (Diapensiaceae). <i>Heredity</i> , <b>1999</b> , 82 Pt 4, 381-90	3.6	64
60	Flow Cytometry and Ploidy: Applications in Plant Systematics, Ecology and Evolutionary Biology <b>2007</b> , 103-130		62
59	Pollen competition as a unilateral reproductive barrier between sympatric diploid and tetraploid <i>Chamerion angustifolium</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 269, 2565-71	4.4	61
58	EFFECTIVE POPULATION SIZE AND GENETIC DRIFT IN TRISTYLOUS EICHHORNIA PANICULATA (PONTEDERIACEAE). <i>Evolution; International Journal of Organic Evolution</i> , <b>1992</b> , 46, 1875-1890	3.8	61
57	Spreading Winge and flying high: The evolutionary importance of polyploidy after a century of study. <i>American Journal of Botany</i> , <b>2016</b> , 103, 1139-45	2.7	58
56	Genetic drift and the maintenance of the style length polymorphism in tristylous populations of <i>Eichhornia paniculata</i> (Pontederiaceae). <i>Heredity</i> , <b>1992</b> , 69, 440-449	3.6	57
55	The Effect of Inbreeding in Diploid and Tetraploid Populations of <i>Epilobium angustifolium</i> (Onagraceae): Implications for the Genetic Basis of Inbreeding Depression. <i>Evolution; International Journal of Organic Evolution</i> , <b>1997</b> , 51, 737	3.8	52
54	Adaptation of diploid and tetraploid <i>Chamerion angustifolium</i> to elevation but not local environment. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 1780-91	3.8	51
53	Fecundity and offspring ploidy in matings among diploid, triploid and tetraploid <i>Chamerion angustifolium</i> (Onagraceae): consequences for tetraploid establishment. <i>Heredity</i> , <b>2001</b> , 87, 573-82	3.6	48
52	Frequency and maintenance of unreduced gametes in natural plant populations: associations with reproductive mode, life history and genome size. <i>New Phytologist</i> , <b>2017</b> , 214, 879-889	9.8	47
51	Small populations are mate-poor but pollinator-rich in a rare, self-incompatible plant, <i>Hymenoxys herbacea</i> (Asteraceae). <i>New Phytologist</i> , <b>2007</b> , 174, 915-925	9.8	47

50	Relationship between the abundance of <i>Lythrum salicaria</i> (purple loosestrife) and plant species richness along the Bar River, Canada. <i>Wetlands</i> , <b>1999</b> , 19, 118-125	1.7	47
49	Spatial and temporal variation in population size of <i>Eichhornia paniculata</i> in ephemeral habitats: implications for metapopulation dynamics. <i>Journal of Ecology</i> , <b>1998</b> , 86, 1021-1031	6	46
48	Pollinator visitation in populations of tristylous <i>Eichhornia paniculata</i> in northeastern Brazil. <i>Oecologia</i> , <b>1992</b> , 89, 365-371	2.9	42
47	Using flow cytometry to estimate pollen DNA content: improved methodology and applications. <i>Annals of Botany</i> , <b>2012</b> , 110, 1067-78	4.1	40
46	The effects of rapid desiccation on estimates of plant genome size. <i>Chromosome Research</i> , <b>2011</b> , 19, 825-42	4.4	40
45	The effect of protandry on siring success in <i>Chamerion angustifolium</i> (Onagraceae) with different inflorescence sizes. <i>Evolution; International Journal of Organic Evolution</i> , <b>2003</b> , 57, 240-8	3.8	40
44	Interspecific seed discounting and the fertility cost of hybridization in an endangered species. <i>New Phytologist</i> , <b>2008</b> , 177, 276-284	9.8	37
43	Multiple origins of self-fertilization in tristylous <i>Eichhornia paniculata</i> (Pontederiaceae): Inferences from style morph and isozyme variation. <i>Journal of Evolutionary Biology</i> , <b>1993</b> , 6, 591-608	2.3	37
42	Direct vs. indirect effects of whole-genome duplication on prezygotic isolation in <i>Chamerion angustifolium</i> : Implications for rapid speciation. <i>American Journal of Botany</i> , <b>2016</b> , 103, 1259-71	2.7	36
41	Cytotype coexistence leads to triploid hybrid production in a diploid-tetraploid contact zone of <i>Chamerion angustifolium</i> (Onagraceae). <i>American Journal of Botany</i> , <b>2013</b> , 100, 962-70	2.7	36
40	ASSOCIATION OF PLOIDY AND SEXUAL SYSTEM IN <i>LYCIUM CALIFORNICUM</i> (SOLANACEAE). <i>Evolution; International Journal of Organic Evolution</i> , <b>2005</b> , 59, 2048-2055	3.8	36
39	Evolutionary Dynamics of Unreduced Gametes. <i>Trends in Genetics</i> , <b>2017</b> , 33, 583-593	8.5	34
38	Hybridization and the reproductive pathways mediating gene flow between native <i>Malus coronaria</i> and domestic apple, <i>M. domestica</i> . <i>Botany</i> , <b>2009</b> , 87, 864-874	1.3	31
37	Maternal and paternal contributions to the fitness of hybrids between red and white mulberry ( <i>Morus</i> , Moraceae). <i>American Journal of Botany</i> , <b>2004</b> , 91, 1802-8	2.7	31
36	Sexing pollen reveals female bias in a dioecious plant. <i>New Phytologist</i> , <b>2007</b> , 175, 185-194	9.8	29
35	Plasticity and Timing of Flower Closure in Response to Pollination in <i>Chamerion angustifolium</i> (Onagraceae). <i>International Journal of Plant Sciences</i> , <b>2007</b> , 168, 619-625	2.6	29
34	Whole genome duplication affects evolvability of flowering time in an autotetraploid plant. <i>PLoS ONE</i> , <b>2012</b> , 7, e44784	3.7	28
33	No influence of water limitation on the outcome of competition between diploid and tetraploid <i>Chamerion angustifolium</i> (Onagraceae). <i>Journal of Ecology</i> , <b>2015</b> , 103, 733-741	6	27

32	The association between polyploidy and clonal reproduction in diploid and tetraploid <i>Chamerion angustifolium</i> . <i>Molecular Ecology</i> , <b>2013</b> , 22, 1806-19	5.7	25
31	Soil microbial communities from an elevational cline differ in their effect on conifer seedling growth. <i>Plant and Soil</i> , <b>2011</b> , 340, 491-504	4.2	25
30	Genome duplication and the evolution of conspecific pollen precedence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 278, 2011-7	4.4	24
29	Habitat differentiation and the ecological costs of hybridization: the effects of introduced mulberry ( <i>Morus alba</i> ) on a native congener ( <i>M. rubra</i> ). <i>Journal of Ecology</i> , <b>2006</b> , 94, 1061-1069	6	24
28	The effects of pollen diversity on plant reproduction: insights from apple. <i>Sexual Plant Reproduction</i> , <b>2006</b> , 19, 125-131		23
27	Estimates of gene flow in <i>Eichhornia paniculata</i> (Pontederiaceae): effects of range substructure. <i>Heredity</i> , <b>1995</b> , 75, 549-560	3.6	23
26	Growth and biomass allocation of <i>Ruppia occidentalis</i> in three lakes, differing in salinity. <i>Canadian Journal of Botany</i> , <b>1985</b> , 63, 2004-2014		21
25	Evolutionary associations between polyploidy, clonal reproduction, and perenniality in the angiosperms. <i>New Phytologist</i> , <b>2019</b> , 224, 1266-1277	9.8	19
24	Ecological status of American chestnut ( <i>Castanea dentata</i> ) in its native range in Canada. <i>Canadian Journal of Forest Research</i> , <b>2004</b> , 34, 2554-2563	1.9	18
23	Effect of recurrent selfing on inbreeding depression and mating system evolution in an autopolyploid plant. <i>Evolution; International Journal of Organic Evolution</i> , <b>2011</b> , 65, 2038-49	3.8	17
22	Factors Affecting Pollen Dispersal in High-density Apple Orchards. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , <b>2001</b> , 36, 1039-1046	2.4	17
21	Immediate vs. evolutionary consequences of polyploidy on clonal reproduction in an autopolyploid plant. <i>Annals of Botany</i> , <b>2018</b> , 122, 195-205	4.1	16
20	The consequences of clone size for paternal and maternal success in domestic apple ( <i>Malus x domestica</i> ). <i>American Journal of Botany</i> , <b>2004</b> , 91, 1326-32	2.7	16
19	Effect of inbreeding on pollen tube growth in diploid and tetraploid <i>Chamerion angustifolium</i> : Do polyploids mask mutational load in pollen?. <i>American Journal of Botany</i> , <b>2016</b> , 103, 532-40	2.7	12
18	Distinguishing 2N gamete nuclei from doublets in pollen using flow cytometry and pulse analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2015</b> , 87, 943-57	4.6	12
17	Pathways of introduction of the invasive aquatic plant <i>Cabomba caroliniana</i> . <i>Ecology and Evolution</i> , <b>2013</b> , 3, 1427-39	2.8	12
16	The influence of experimentally induced polyploidy on the relationships between endopolyploidy and plant function in. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 198-216	2.8	12
15	Mosaic distribution of cytotypes in a mixed-ploidy plant species, <i>Jasione montana</i> : nested environmental niches but low geographical overlap. <i>Botanical Journal of the Linnean Society</i> , <b>2019</b> , 190, 51-66	2.2	11

14	Sexual interference within flowers of <i>Chamerion angustifolium</i> . <i>Evolutionary Ecology</i> , <b>2006</b> , 20, 331-343	1.8	11
13	Variation in Outcrossing Rates in <i>Eichhornia paniculata</i> : Temporal Changes in Populations of Contrasting Style Morph Structure. <i>Plant Species Biology</i> , <b>1993</b> , 8, 141-148	1.3	11
12	Complex cytogeographical patterns reveal a dynamic tetraploid-octoploid contact zone. <i>AoB PLANTS</i> , <b>2018</b> , 10, ply012	2.9	7
11	Offspring fitness and parental effects as a function of inbreeding in <i>Epilobium angustifolium</i> (Onagraceae). <i>Heredity</i> , <b>1998</b> , 80, 173-179	3.6	6
10	The origins and evolutionary history of feral apples in southern Canada. <i>Molecular Ecology</i> , <b>2020</b> , 29, 1776-1790	5.7	6
9	The role of multiple reproductive barriers: strong post-pollination interactions govern cytotype isolation in a tetraploid-octoploid contact zone. <i>Annals of Botany</i> , <b>2020</b> , 126, 991-1003	4.1	5
8	FITNESS DIFFERENCES AMONG DIPLOIDS, TETRAPLOIDS, AND THEIR TRIPLOID PROGENY IN CHAMERION ANGUSTIFOLIUM: MECHANISMS OF INVIABILITY AND IMPLICATIONS FOR POLYPLOID EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , <b>2000</b> , 54, 1182	3.8	5
7	ESTIMATING EFFECTIVE POPULATION SIZE: A REPLY TO NUNNEY. <i>Evolution; International Journal of Organic Evolution</i> , <b>1995</b> , 49, 392-394	3.8	5
6	Whole-genome duplication decreases clonal stolon production and genet size in the wild strawberry <i>Fragaria vesca</i> . <i>American Journal of Botany</i> , <b>2018</b> , 105, 1712-1724	2.7	5
5	Correlated polymorphism in cytotype and sexual system within a monophyletic species, <i>Lycium californicum</i> . <i>Annals of Botany</i> , <b>2016</b> , 117, 307-17	4.1	4
4	Different Patterns of Ecological Divergence Between Two Tetraploids and Their Diploid Counterpart in a Parapatric Linear Coastal Distribution Polyploid Complex. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 315	6.2	4
3	Flow cytometric analysis of pollen grains collected from individual bees provides information about pollen load composition and foraging behaviour. <i>Annals of Botany</i> , <b>2014</b> , 113, 191-7	4.1	4
2	Endopolyploidy is associated with leaf functional traits and climate variation in <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , <b>2020</b> , 107, 993-1003	2.7	3
1	Offspring fitness and parental effects as a function of inbreeding in <i>Epilobium angustifolium</i> (Onagraceae)		1