Jacek Radwan

List of Publications by Year
in descending order

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131	5,412	66343	106344
papers	citations	42 h-index	65 g-index

136	136	136	4066
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genic capture and resolving the lek paradox. Trends in Ecology and Evolution, 2004, 19, 323-328.	8.7	527
2	Does reduced MHC diversity decrease viability of vertebrate populations?. Biological Conservation, 2010, 143, 537-544.	4.1	201
3	Advances in the Evolutionary Understanding of MHC Polymorphism. Trends in Genetics, 2020, 36, 298-311.	6.7	188
4	Effects of an MHCâ€DRB genotype and allele number on the load of gut parasites in the bank vole Myodes glareolus. Molecular Ecology, 2010, 19, 255-265.	3.9	134
5	New generation sequencers as a tool for genotyping of highly polymorphic multilocus MHC system. Molecular Ecology Resources, 2009, 9, 713-719.	4.8	133
6	<scp>amplisas</scp>: a web server for multilocus genotyping using nextâ€generation amplicon sequencing data. Molecular Ecology Resources, 2016, 16, 498-510.	4.8	110
7	Male morph determination in two species of acarid mites. Heredity, 1995, 74, 669-673.	2.6	108
8	454 sequencing reveals extreme complexity of the class II Major Histocompatibility Complex in the collared flycatcher. BMC Evolutionary Biology, 2010, 10, 395.	3.2	106
9	META-ANALYSIS SUGGESTS CHOOSY FEMALES GET SEXY SONS MORE THAN â€œGOOD GENESâ€• Evolution; International Journal of Organic Evolution, 2012, 66, 2665-2673.	2.3	106
10	The adaptive significance of male polymorphism in the acarid mite Caloglyphus berlesei. Behavioral Ecology and Sociobiology, 1993, 33, 201-208.	1.4	91
11	Male age, germline mutations and the benefits of polyandry. Ecology Letters, 2003, 6, 581-586.	6.4	89
12	Maintenance of genetic variation in sexual ornaments: a review of the mechanisms. Genetica, 2008, 134, 113-127.	1.1	88
13	jMHC: software assistant for multilocus genotyping of gene families using nextâ€generation amplicon sequencing. Molecular Ecology Resources, 2011, 11, 739-742.	4.8	86
14	Immunogenetic novelty confers a selective advantage in hostâ€“pathogen coevolution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1552-1557.	7.1	86
15	Effectiveness of sexual selection in removing mutations induced with ionizing radiation. Ecology Letters, 2004, 7, 1149-1154.	6.4	84
16	MHC diversity, malaria and lifetime reproductive success in collared flycatchers. Molecular Ecology, 2012, 21, 2469-2479.	3.9	82
17	Sequence diversity of the MHC DRB gene in the Eurasian beaver (Castor fiber). Molecular Ecology, 2005, 14, 4249-4257.	3.9	80
18	MHC diversity in bottlenecked populations: a simulation model. Conservation Genetics, 2011, 12, 129-137.	1.5	75

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19	Interspecific hybridization increases MHC class II diversity in two sister species of newts. Molecular Ecology, 2012, 21, 887-906.	3.9	69
20	The locus of sexual selection: moving sexual selection studies into the postâ€genomics era. Journal of Evolutionary Biology, 2015, 28, 739-755.	1.7	69
21	Evolution of major histocompatibility complex class I and class II genes in the brown bear. BMC Evolutionary Biology, 2012, 12, 197.	3.2	63
22	MHC-DRB3 variation in a free-living population of the European bison, Bison bonasus. Molecular Ecology, 2006, 16, 531-540.	3.9	61
23	Contrasting patterns of variation in MHC loci in the Alpine newt. Molecular Ecology, 2008, 17, 2339-2355.	3.9	59
24	Mating system affects population performance and extinction risk under environmental challenge. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4661-4667.	2.6	59
25	POLYANDRY INCREASES OFFSPRING FECUNDITY IN THE BULB MITE. Evolution; International Journal of Organic Evolution, 2001, 55, 1893-1896.	2.3	58
26	Longâ€term survival of a urodele amphibian despite depleted major histocompatibility complex variation. Molecular Ecology, 2009, 18, 769-781.	3.9	58
27	Statusâ€dependence and morphological tradeâ€offs in the expression of a sexually selected character in the mite, Sancassania berlesei. Journal of Evolutionary Biology, 2002, 15, 744-752.	1.7	57
28	Aggressiveness in Two Male Morphs of the Bulb Mite Rhizoglyphus robini. Ethology, 2000, 106, 53-62.	1.1	56
29	The function of post-insemination mate association in the bulb mite,Rhizoglyphus robini. Animal Behaviour, 1996, 52, 651-657.	1.9	55
30	Selective pressures on <scp>MHC</scp> class <scp>II</scp> genes in the guppy (<i><scp>P</scp>oecilia) Tj ETQq0 0 0 rgBT /Overlock Biology, 2014, 27, 2347-2359.	1.7	55
31	Effect of inbreeding and heritability of sperm competition success in the bulb mite Rhizoglyphus robini. Heredity, 2005, 94, 577-581.	2.6	54
32	Accuracy of allele frequency estimation using pooled <scp>RNA</scp>â€Seq. Molecular Ecology Resources, 2014, 14, 381-392.	4.8	54
33	Red Queen Processes Drive Positive Selection on Major Histocompatibility Complex (MHC) Genes. PLoS Computational Biology, 2015, 11, e1004627.	3.2	54
34	Male dimorphism in the bulb mite,Rhizoglyphus robini: fighters survive better. Ethology Ecology and Evolution, 2001, 13, 69-79.	1.4	53
35	Effectiveness of sexual selection in preventing fitness deterioration in bulb mite populations under relaxed natural selection. Journal of Evolutionary Biology, 2004, 17, 94-99.	1.7	53
36	SEXUAL SELECTION COUNTERACTS EXTINCTION OF SMALL POPULATIONS OF THE BULB MITES. Evolution; International Journal of Organic Evolution, 2009, 64, 1283-9.	2.3	50

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37	Alternative reproductive tactics and sexâ€biased gene expression: the study of the bulb mite transcriptome. Ecology and Evolution, 2014, 4, 623-632.	1.9	50
38	Major histocompatibility complex class I diversity limits the repertoire of T cell receptors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5021-5026.	7.1	48
39	Inbreeding depression in fecundity and inbred line extinction in the bulb mite, Rhizoglyphus robini. Heredity, 2003, 90, 371-376.	2.6	47
40	Age dependence of male mating ability and sperm competition success in the bulb mite. Animal Behaviour, 2005, 69, 1101-1105.	1.9	47
41	Habitat Complexity Drives Experimental Evolution of a Conditionally Expressed Secondary Sexual Trait. Current Biology, 2011, 21, 569-573.	3.9	46
42	Testing genotyping strategies for ultraâ€deep sequencing of a coâ€amplifying gene family: MHC class I in a passerine bird. Molecular Ecology Resources, 2017, 17, 642-655.	4.8	46
43	Heritability of sperm competition success in the bulb mite,. Journal of Evolutionary Biology, 1998, 11, 321.	1.7	46
44	The genomics of adaptation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 5024-5028.	2.6	45
45	Sperm precedence in the bulb mite,Rhizoglyphus robini: context-dependent variation. Ethology Ecology and Evolution, 1997, 9, 373-383.	1.4	44
46	An evaluation of two potential risk factors, MHC diversity and host density, for infection by an invasive nematode Ashworthius sidemi in endangered European bison (Bison bonasus). Biological Conservation, 2010, 143, 2049-2053.	4.1	44
47	Sexual selection and the evolutionary dynamics of the major histocompatibility complex. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141662.	2.6	44
48	SELECTION FOR ALTERNATIVE MALE REPRODUCTIVE TACTICS ALTERS INTRALOCUS SEXUAL CONFLICT. Evolution; International Journal of Organic Evolution, 2014, 68, 2137-2144.	2.3	44
49	Comparison of life-history traits of the two male morphs of the bulb mite, Rhizoglyphus robini. , 2000, 24, 115-121.		43
50	Population fragmentation and major histocompatibility complex variation in the spotted suslik, Spermophilus suslicus. Molecular Ecology, 2008, 17, 4801-4811.	3.9	43
51	EVOLUTION UNDER RELAXED SEXUAL CONFLICT IN THE BULB MITE RHIZOGLYPHUS ROBINI. Evolution; International Journal of Organic Evolution, 2006, 60, 1868-1873.	2.3	42
52	Evaluation of two approaches to genotyping major histocompatibility complex class I in a passerineâ€"CEâ€SSCP and 454 pyrosequencing. Molecular Ecology Resources, 2012, 12, 285-292.	4.8	42
53	MHC and Preferences for Male Odour in the Bank Vole. Ethology, 2008, 114, 827-833.	1.1	41
54	Male morph determination in Rhizoglyphus echinopus (Acaridae). , 2001, 25, 143-149.		39

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55	MHC influences infection with parasites and winter survival in the root vole Microtus oeconomus. Evolutionary Ecology, 2013, 27, 635-653.	1.2	39
56	Extreme MHC class I diversity in the sedge warbler (Acrocephalus schoenobaenus); selection patterns and allelic divergence suggest that different genes have different functions. BMC Evolutionary Biology, 2017, 17, 159.	3.2	39
57	Good genes and the maternal effects of polyandry on offspring reproductive success in the bulb mite. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 165-170.	2.6	37
58	Testing the status-dependent ESS model: population variation in fighter expression in the mite Sancassania berlesei. Journal of Evolutionary Biology, 2004, 17, 1377-1388.	1.7	37
59	Sperm competition in the mite Caloglyphus berlesei. Behavioral Ecology and Sociobiology, 1991, 29, 291-296.	1.4	33
60	Alternative phenotypes and sexual selection: can dichotomous handicaps honestly signal quality?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1401-1406.	2.6	33
61	Parasite load and <scp>MHC</scp> diversity in undisturbed and agriculturally modified habitats of the ornate dragon lizard. Molecular Ecology, 2014, 23, 5966-5978.	3.9	32
62	Heritability of male morph in the bulb mite, Rhizoglyphus robini (Astigmata, Acaridae). Experimental and Applied Acarology, 2003, 29, 109-114.	1.6	31
63	MHC allele frequency distributions under parasite-driven selection: A simulation model. BMC Evolutionary Biology, 2010, 10, 332.	3.2	31
64	Sperm competition. Nature, 1991, 352, 671-672.	27.8	30
65	Sexual selection drives the evolution of male wing interference patterns. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182850.	2.6	27
66	Initial Molecular-Level Response to Artificial Selection for Increased Aerobic Metabolism Occurs Primarily through Changes in Gene Expression. Molecular Biology and Evolution, 2015, 32, 1461-1473.	8.9	26
67	A Paradox of Genetic Variance in Epigamic Traits: Beyond â€œGood Genesâ€•View of Sexual Selection. Evolutionary Biology, 2016, 43, 267-275.	1.1	26
68	STRUCTURAL COMPLEXITY OF THE ENVIRONMENT AFFECTS THE SURVIVAL OF ALTERNATIVE MALE REPRODUCTIVE TACTICS. Evolution; International Journal of Organic Evolution, 2006, 60, 399-403.	2.3	25
69	Chapter 6 Alternative Mating Tactics in Acarid Mites. Advances in the Study of Behavior, 2009, , 185-208.	1.6	25
70	Genomic Response to Selection for Predatory Behavior in a Mammalian Model of Adaptive Radiation. Molecular Biology and Evolution, 2016, 33, 2429-2440.	8.9	25
71	Blood parasites shape extreme major histocompatibility complex diversity in a migratory passerine. Molecular Ecology, 2018, 27, 2594-2603.	3.9	25
72	The effect of mating frequency on female lifetime fecundity in the bulb mite, Rhizoglyphus robini (Acari: Acaridae). Behavioral Ecology and Sociobiology, 2003, 53, 110-115.	1.4	23

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73	EVOLUTION UNDER RELAXED SEXUAL CONFLICT IN THE BULB MITE RHIZOGLYPHUS ROBINI. Evolution; International Journal of Organic Evolution, 2006, 60, 1868.	2.3	23
74	Kin selection promotes female productivity and cooperation between the sexes. Science Advances, 2017, 3, e1602262.	10.3	23
75	Evolution of major histocompatibility complex gene copy number. PLoS Computational Biology, 2019, 15, e1007015.	3.2	23
76	Low inbreeding depression in a sexual trait in the stalk-eyed fly Teleopsis dalmanni. Evolutionary Ecology, 2010, 24, 827-837.	1.2	22
77	Heart transcriptome of the bank vole (Myodes glareolus): towards understanding the evolutionary variation in metabolic rate. BMC Genomics, 2010, 11, 390.	2.8	22
78	<scp>MHC</scp>, parasites and antler development in red deer: no support for the Hamilton & Zuk hypothesis. Journal of Evolutionary Biology, 2016, 29, 617-632.	1.7	21
79	Transcriptomics of Intralocus Sexual Conflict: Gene Expression Patterns in Females Change in Response to Selection on a Male Secondary Sexual Trait in the Bulb Mite. Genome Biology and Evolution, 2016, 8, 2351-2357.	2.5	20
80	Strong association between a single gene and fertilization efficiency of males and fecundity of their mates in the bulb mite. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 309-314.	2.6	18
81	Low Major Histocompatibility Complex Class I (MHC I) Variation in the European Bison (Bison bonasus). Journal of Heredity, 2012, 103, 349-359.	2.4	18
82	Contest winning and metabolic competence in male bank voles Clethrionomys glareolus. Behaviour, 2004, 141, 343-354.	0.8	17
83	Heterozygosity and orange coloration are associated in the guppy (Poecilia reticulata). Journal of Evolutionary Biology, 2014, 27, 220-225.	1.7	17
84	Effects of heterozygosity and MHC diversity on patterns of extra-pair paternity in the socially monogamous scarlet rosefinch. Behavioral Ecology and Sociobiology, 2015, 69, 459-469.	1.4	17
85	Kin recognition in the acarid mite, Caloglyphus berlesei: negative evidence. Animal Behaviour, 1993, 45, 200-202.	1.9	16
86	Effect of Mating Frequency on Female Fitness in Caloglyphus Berlesei (Astigmata: Acaridae). Experimental and Applied Acarology, 1999, 23, 399-409.	1.6	16
87	Experimental evolution under hyper-promiscuity in Drosophila melanogaster. BMC Evolutionary Biology, 2016, 16, 131.	3.2	16
88	Experimental evolution reveals balancing selection underlying coexistence of alternative male reproductive phenotypes. Evolution; International Journal of Organic Evolution, 2016, 70, 2611-2615.	2.3	16
89	Male age, mating probability, and progeny fitness in the bulb mite. Behavioral Ecology, 2007, 18, 597-601.	2.2	15
90	Relative costs and benefits of alternative reproductive phenotypes at different temperatures â€“ genotype-by-environment interactions in a sexually selected trait. BMC Evolutionary Biology, 2018, 18, 109.	3.2	15

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91	Contrasting patterns of selection acting on MHC class I and class II DRB genes in the Alpine marmot (Marmota marmota). Journal of Evolutionary Biology, 2012, 25, 1686-1693.	1.7	14
92	The role of MHC supertypes in promoting trans-species polymorphism remains an open question. Nature Communications, 2018, 9, 4362.	12.8	13
93	Profiling of the TCRÎ² repertoire in non-model species using high-throughput sequencing. Scientific Reports, 2018, 8, 11613.	3.3	13
94	The influence of a crowded environment on the size of males ofCaloglyphus berlesei(Acari: Acaridae). International Journal of Acarology, 1992, 18, 67-68.	0.7	12
95	Procrustean analysis of fluctuating asymmetry in the bulb mite Rhizoglyphus robini Claparede (Astigmata: Acaridae). Biological Journal of the Linnean Society, 2003, 80, 499-505.	1.6	12
96	Inbreeding alters intersexual fitness correlations in Drosophila simulans .. Ecology and Evolution, 2014, 4, 3330-3338.	1.9	12
97	De novo transcriptome assembly facilitates characterisation of fast-evolving gene families, MHC class I in the bank vole (Myodes glareolus). Heredity, 2017, 118, 348-357.	2.6	11
98	Fitness consequences of threshold trait expression subject to environmental cues. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180783.	2.6	11
99	Gene duplications, divergence and recombination shape adaptive evolution of the fish ectoparasite Gyrodactylus bullatarudis. Molecular Ecology, 2020, 29, 1494-1507.	3.9	11
100	No Evidence for Reproductive Isolation through Sexual Conflict in the Bulb Mite Rhizoglyphus robini. PLoS ONE, 2013, 8, e74971.	2.5	11
101	Sequence diversity of MHC class II DRB genes in the bank voleMyodes glareolus. Acta Theriologica, 2007, 52, 227-235.	1.1	10
102	Population growth rate and genetic variability of small and large populations of Red flour beetle (Tribolium castaneum) following multigenerational exposure to copper. Ecotoxicology, 2015, 24, 1162-1170.	2.4	10
103	RNAâ€Seq analysis of the guppy immune response against Gyrodactylus bullatarudis infection. Parasite Immunology, 2020, 42, e12782.	1.5	10
104	Major histocompatibility complex DRB genes and blood parasite loads in fragmented populations of the spotted suslik Spermophilus suslicus. Mammalian Biology, 2011, 76, 672-677.	1.5	9
105	Balancing selection versus allele and supertype turnover in MHC class II genes in guppies. Heredity, 2021, 126, 548-560.	2.6	9
106	No Evidence for the Effect of MHC on Male Mating Success in the Brown Bear. PLoS ONE, 2014, 9, e113414.	2.5	8
107	Population structure of edible dormouse in Poland: the role of habitat fragmentation and implications for conservation. Journal of Zoology, 2016, 298, 217-224.	1.7	8
108	Genomic evidence that a sexually selected trait captures genome-wide variation and facilitates the purging of genetic load. Nature Ecology and Evolution, 2022, 6, 1330-1342.	7.8	8

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109	Sexual selection and conflict in the bulb mite, Rhizoglyphus robini (Astigmata: Acaridae). Experimental and Applied Acarology, 2007, 42, 151-158.	1.6	7
110	Population structure of guppies in north-eastern Venezuela, the area of putative incipient speciation. BMC Evolutionary Biology, 2014, 14, 28.	3.2	7
111	Effect of induced mutations on sexually selected traits in the guppy, Poecilia reticulata. Animal Behaviour, 2015, 110, 105-111.	1.9	7
112	Wolbachia infection can bias estimates of intralocus sexual conflict. Ecology and Evolution, 2019, 9, 328-338.	1.9	7
113	Sexually selected male weapon is associated with lower inbreeding load but higher sex load in the bulb mite. Evolution; International Journal of Organic Evolution, 2020, 74, 1851-1855.	2.3	7
114	Effective specialist or jack of all trades? Experimental evolution of a crop pest in fluctuating and stable environments. Evolutionary Applications, 2022, 15, 1639-1652.	3.1	7
115	Long term patterns of association between MHC and helminth burdens in the bank vole support Red Queen dynamics. Molecular Ecology, 2022, 31, 3400-3415.	3.9	7
116	Condition dependence of sexual attractiveness in the bank vole. Behavioral Ecology and Sociobiology, 2009, 63, 339-344.	1.4	6
117	Colony size, but not density, affects survival and mating success of alternative male reproductive tactics in a polyphenic mite, Rhizoglyphus echinopus. Behavioral Ecology and Sociobiology, 2014, 68, 1921-1928.	1.4	6
118	Male-limited secondary sexual trait interacts with environment in determining female fitness. Evolution; International Journal of Organic Evolution, 2018, 72, 1716-1722.	2.3	6
119	What do orange spots reveal about male (and female) guppies? A test using correlated responses to selection. Evolution; International Journal of Organic Evolution, 2021, 75, 3037-3055.	2.3	6
120	Structural complexity of the environment affects the survival of alternative male reproductive tactics. Evolution; International Journal of Organic Evolution, 2006, 60, 399-403.	2.3	6
121	On oestrous advertisement, spite and sexual harassment. Animal Behaviour, 1995, 49, 1399-1400.	1.9	5
122	POLYANDRY INCREASES OFFSPRING FECUNDITY IN THE BULB MITE. Evolution; International Journal of Organic Evolution, 2001, 55, 1893.	2.3	5
123	Good genes go fisherian. Trends in Ecology and Evolution, 2002, 17, 539.	8.7	5
124	Mating preferences can drive expansion or contraction of major histocompatibility complex gene family. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192706.	2.6	5
125	Sexual and ecological selection on a sexual conflict gene. Journal of Evolutionary Biology, 2020, 33, 1433-1439.	1.7	4
126	Expansion of frozen hybrids in the guppy ectoparasite, Gyrodactylus turnbulli. Molecular Ecology, 2021, 30, 1005-1016.	3.9	4

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127	Functional immunogenetic variation, rather than local adaptation, predicts ectoparasite infection intensity in a model fish species. Molecular Ecology, 2021, 30, 5588-5604.	3.9	4
128	The effect of a phosphogluconate dehydrogenase genotype on sperm competitiveness in the bulb mite,Rhizoglyphus robini. , 2010, , 295-297.		4
129	Evolution of mate guarding under the risk of intrasexual aggression in a mite with alternative mating tactics. Animal Behaviour, 2018, 137, 75-82.	1.9	3
130	Enzyme polymorphisms in Rhizoglyphus robini and R. echinopus and their application in paternity analysis. Experimental and Applied Acarology, 2002, 26, 161-168.	1.6	2
131	STRUCTURAL COMPLEXITY OF THE ENVIRONMENT AFFECTS THE SURVIVAL OF ALTERNATIVE MALE REPRODUCTIVE TACTICS. Evolution; International Journal of Organic Evolution, 2006, 60, 399.	2.3	0