

# James H Marden

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8998413/publications.pdf>

Version: 2024-02-01

71  
papers

4,965  
citations

101543

36  
h-index

110387

64  
g-index

73  
all docs

73  
docs citations

73  
times ranked

5051  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alleles in metabolic and oxygen-sensing genes are associated with antagonistic pleiotropic effects on life history traits and population fitness in an ecological model insect*. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 116-129.	2.3	6
2	Gene Expression Modularity Reveals Footprints of Polygenic Adaptation in <i>Theobroma cacao</i> . <i>Molecular Biology and Evolution</i> , 2020, 37, 110-123.	8.9	22
3	Widely distributed variation in tolerance to <i>Phytophthora palmivora</i> in four genetic groups of cacao. <i>Tree Genetics and Genomes</i> , 2020, 16, 1.	1.6	15
4	Host plant defense produces species specific alterations to flight muscle protein structure and flight-related fitness traits of two armyworms. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
5	Enhanced heat tolerance of viral-infected aphids leads to niche expansion and reduced interspecific competition. <i>Nature Communications</i> , 2020, 11, 1184.	12.8	31
6	Resistance Genes Affect How Pathogens Maintain Plant Abundance and Diversity. <i>American Naturalist</i> , 2020, 196, 472-486.	2.1	11
7	Discovery of antitumor lectins from rainforest tree root transcriptomes. <i>PLoS ONE</i> , 2020, 15, e0229467.	2.5	3
8	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
9	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
10	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
11	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
12	Filling Adeno-Associated Virus Capsids: Estimating Success by Cryo-Electron Microscopy. <i>Human Gene Therapy</i> , 2019, 30, 1449-1460.	2.7	25
13	Resistant and susceptible cacao genotypes exhibit defense gene polymorphism and unique early responses to <i>Phytophthora megakarya</i> inoculation. <i>Plant Molecular Biology</i> , 2019, 99, 499-516.	3.9	24
14	Antipredator behavior by a nesting hummingbird in response to a caterpillar with eyespots. <i>Ecology</i> , 2019, 100, e02582.	3.2	0
15	Enzyme polymorphism, oxygen and injury: a lipidomic analysis of flight-induced oxidative damage in a SDH-polymorphic insect. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	8
16	Ecological genomics of tropical trees: how local population size and allelic diversity of resistance genes relate to immune responses, cosusceptibility to pathogens, and negative density dependence. <i>Molecular Ecology</i> , 2017, 26, 2498-2513.	3.9	50
17	Two genomes of highly polyphagous lepidopteran pests ( <i>Spodoptera frugiperda</i> , Noctuidae) with different host-plant ranges. <i>Scientific Reports</i> , 2017, 7, 11816.	3.3	242
18	A Pathway Analysis of Melanin Patterning in a Hemimetabolous Insect. <i>Genetics</i> , 2016, 203, 403-413.	2.9	69

#	ARTICLE	IF	CITATIONS
19	Origin and diversification of wings: Insights from a neopteran insect. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15946-15951.	7.1	64
20	Covariation in abscission force and terminal velocity of windborne sibling seeds alters long-distance dispersal projections. Methods in Ecology and Evolution, 2015, 6, 593-599.	5.2	4
21	Inbreeding compromises host plant defense gene expression and improves herbivore survival. Plant Signaling and Behavior, 2015, 10, e998548.	2.4	19
22	Cascading effects of host plant inbreeding on the larval growth, muscle molecular composition, and flight capacity of an adult herbivorous insect. Functional Ecology, 2015, 29, 328-337.	3.6	23
23	Insights into the Development and Evolution of Exaggerated Traits Using De Novo Transcriptomes of Two Species of Horned Scarab Beetles. PLoS ONE, 2014, 9, e88364.	2.5	15
24	REANALYSIS AND EXPERIMENTAL EVIDENCE INDICATE THAT THE EARLIEST TRACE FOSSIL OF A WINGED INSECT WAS A SURFACE-SKIMMING NEOPTERAN. Evolution; International Journal of Organic Evolution, 2013, 67, 274-280.	2.3	11
25	REPLY TO "COMMENT ON MARDEN (2013) REGARDING THE INTERPRETATION OF THE EARLIEST TRACE FOSSIL OF A WINGED INSECT". Evolution; International Journal of Organic Evolution, 2013, 67, 2150-2153.	2.3	4
26	GENETIC VARIATION IN HIF SIGNALING UNDERLIES QUANTITATIVE VARIATION IN PHYSIOLOGICAL AND LIFE-HISTORY TRAITS WITHIN LOWLAND BUTTERFLY POPULATIONS. Evolution; International Journal of Organic Evolution, 2013, 67, 1105-1115.	2.3	39
27	Nature's inordinate fondness for metabolic enzymes: why metabolic enzyme loci are so frequently targets of selection. Molecular Ecology, 2013, 22, 5743-5764.	3.9	59
28	Functional genomics of life history variation in a butterfly metapopulation. Molecular Ecology, 2011, 20, 1813-1828.	3.9	63
29	Scaling Laws in Robotics. Procedia Computer Science, 2011, 7, 250-252.	2.0	27
30	Body weight-dependent troponin T alternative splicing is evolutionarily conserved from insects to mammals and is partially impaired in skeletal muscle of obese rats. Journal of Experimental Biology, 2011, 214, 1523-1532.	1.7	26
31	Nucleotide Polymorphism at a Gene ( <i>Pgi</i> ) under Balancing Selection in a Butterfly Metapopulation. Molecular Biology and Evolution, 2010, 27, 267-281.	8.9	41
32	The constructal unification of biological and geophysical design. Physics of Life Reviews, 2009, 6, 85-102.	2.8	68
33	Flight metabolic rate and <i>Pgi</i> genotype influence butterfly dispersal rate in the field. Ecology, 2009, 90, 2223-2232.	3.2	159
34	Quantitative and evolutionary biology of alternative splicing: how changing the mix of alternative transcripts affects phenotypic plasticity and reaction norms. Heredity, 2008, 100, 111-120.	2.6	61
35	Rapid transcriptome characterization for a nonmodel organism using 454 pyrosequencing. Molecular Ecology, 2008, 17, 1636-1647.	3.9	624
36	Weight and nutrition affect pre-mRNA splicing of a muscle gene associated with performance, energetics and life history. Journal of Experimental Biology, 2008, 211, 3653-3660.	1.7	35

#	ARTICLE	IF	CITATIONS
37	Evolution and physiology of flight in aquatic insects.. , 2008, , 230-249.		4
38	Parasites, proteomics and performance: effects of gregarine gut parasites on dragonfly flight muscle composition and function. <i>Journal of Experimental Biology</i> , 2007, 210, 4298-4306.	1.7	15
39	Metabolic Syndrome in Insects Triggered by Gut Microbes. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 794-796.	2.2	9
40	Unifying constructal theory for scale effects in running, swimming and flying. <i>Journal of Experimental Biology</i> , 2006, 209, 238-248.	1.7	266
41	Metabolic syndrome and obesity in an insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18805-18809.	7.1	64
42	Functional and Ecological Effects of Isoform Variation in Insect Flight Muscle. , 2006, , 214-229.		2
43	A candidate locus for variation in dispersal rate in a butterfly metapopulation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2449-2456.	2.6	198
44	Scaling of maximum net force output by motors used for locomotion. <i>Journal of Experimental Biology</i> , 2005, 208, 1653-1664.	1.7	47
45	A hierarchical analysis of the scaling of force and power production by dragonfly flight motors. <i>Journal of Experimental Biology</i> , 2004, 207, 767-776.	1.7	41
46	Territorial and mating success of dragonflies that vary in muscle power output and presence of gregarine gut parasites. <i>Animal Behaviour</i> , 2004, 68, 857-865.	1.9	79
47	Conditional tradeoffs between aging and organismal performance of Indy long-lived mutant flies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3369-3373.	7.1	186
48	Mapping Determinants of Variation in Energy Metabolism, Respiration and Flight in <i>Drosophila</i> . <i>Genetics</i> , 2003, 165, 623-635.	2.9	106
49	Molecules, muscles, and machines: Universal performance characteristics of motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4161-4166.	7.1	99
50	Alternative splicing, muscle contraction and intraspecific variation: associations between troponin T transcripts, Ca <sup>2+</sup> sensitivity and the force and power output of dragonfly flight muscles during oscillatory contraction. <i>Journal of Experimental Biology</i> , 2001, 204, 3457-3470.	1.7	52
51	Mite not make it home: tracheal mites reduce the safety margin for oxygen delivery of flying honeybees. <i>Journal of Experimental Biology</i> , 2001, 204, 805-14.	1.7	43
52	Alternative splicing, muscle contraction and intraspecific variation: associations between troponin T transcripts, Ca <sup>2+</sup> sensitivity and the force and power output of dragonfly flight muscles during oscillatory contraction. <i>Journal of Experimental Biology</i> , 2001, 204, 3457-70.	1.7	38
53	Surface-skimming Stoneflies and Mayflies: The Taxonomic and Mechanical Diversity of Two-Dimensional Aerodynamic Locomotion. <i>Physiological and Biochemical Zoology</i> , 2000, 73, 751-764.	1.5	30
54	Growth, Differential Survival, and Shifting Sex Ratio of Free-Living <i>Libellula pulchella</i> (Odonata: Libellulidae) Dragonflies During Adult Maturation. <i>Annals of the Entomological Society of America</i> , 2000, 93, 452-458.	2.5	7

#	ARTICLE	IF	CITATIONS
55	Molecular phylogenetic analysis of evolutionary trends in stonefly wing structure and locomotor behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13178-13183.	7.1	65
56	Variability in the Size, Composition, and Function of Insect Flight Muscles. <i>Annual Review of Physiology</i> , 2000, 62, 157-178.	13.1	184
57	Alternative splicing, muscle calcium sensitivity, and the modulation of dragonfly flight performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 15304-15309.	7.1	48
58	Almost airborne. <i>Nature</i> , 1997, 385, 403-404.	27.8	9
59	Aerial performance of <i>Drosophila melanogaster</i> from populations selected for upwind flight ability. <i>Journal of Experimental Biology</i> , 1997, 200, 2747-2755.	1.7	41
60	Aerial performance of <i>Drosophila melanogaster</i> from populations selected for upwind flight ability. <i>Journal of Experimental Biology</i> , 1997, 200, 2747-55.	1.7	20
61	Locomotor performance of insects with rudimentary wings. <i>Nature</i> , 1995, 377, 332-334.	27.8	40
62	Plecopteran Surface-Skimming and Insect Flight Evolution. <i>Science</i> , 1995, 270, 1684-1684.	12.6	22
63	Surface-Skimming Stoneflies: A Possible Intermediate Stage in Insect Flight Evolution. <i>Science</i> , 1994, 266, 427-430.	12.6	89
64	Assessment of energy reserves by damselflies engaged in aerial contests for mating territories. <i>Animal Behaviour</i> , 1994, 48, 1023-1030.	1.9	121
65	Patterns of mass gain and sexual dimorphism in adult dragonflies (Insecta: Odonata). <i>Canadian Journal of Zoology</i> , 1991, 69, 1156-1163.	1.0	100
66	Aerial Predation and Butterfly Design: How Palatability, Mimicry, and the Need for Evasive Flight Constrain Mass Allocation. <i>American Naturalist</i> , 1991, 138, 15-36.	2.1	170
67	Escalated damselfly territorial contests are energetic wars of attrition. <i>Animal Behaviour</i> , 1990, 39, 954-959.	1.9	285
68	Maximum Load-Lifting and Induced Power Output of Harris's™ Hawks are General Functions of Flight Muscle Mass. <i>Journal of Experimental Biology</i> , 1990, 149, 511-514.	1.7	28
69	Bodybuilding Dragonflies: Costs and Benefits of Maximizing Flight Muscle. <i>Physiological Zoology</i> , 1989, 62, 505-521.	1.5	211
70	Maximum Lift Production During Takeoff in Flying Animals. <i>Journal of Experimental Biology</i> , 1987, 130, 235-258.	1.7	356
71	Rowing locomotion by a stonefly that possesses the ancestral pterygote condition of co-occurring wings and abdominal gills. <i>Biological Journal of the Linnean Society</i> , 0, 79, 341-349.	1.6	31