

James H Marden

List of Publications by Year in descending order

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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	Rapid transcriptome characterization for a nonmodel organism using 454 pyrosequencing. <i>Molecular Ecology</i> , 2008, 17, 1636-1647.	3.9	624
2	Maximum Lift Production During Takeoff in Flying Animals. <i>Journal of Experimental Biology</i> , 1987, 130, 235-258.	1.7	356
3	Escalated damselfly territorial contests are energetic wars of attrition. <i>Animal Behaviour</i> , 1990, 39, 954-959.	1.9	285
4	Unifying constructal theory for scale effects in running, swimming and flying. <i>Journal of Experimental Biology</i> , 2006, 209, 238-248.	1.7	266
5	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
6	Bodybuilding Dragonflies: Costs and Benefits of Maximizing Flight Muscle. <i>Physiological Zoology</i> , 1989, 62, 505-521.	1.5	211
7	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
8	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
9	Variability in the Size, Composition, and Function of Insect Flight Muscles. <i>Annual Review of Physiology</i> , 2000, 62, 157-178.	13.1	184
10	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
11	Flight metabolic rate and <i>Pgi</i> genotype influence butterfly dispersal rate in the field. <i>Ecology</i> , 2009, 90, 2223-2232.	3.2	159
12	Assessment of energy reserves by damselflies engaged in aerial contests for mating territories. <i>Animal Behaviour</i> , 1994, 48, 1023-1030.	1.9	121
13	Mapping Determinants of Variation in Energy Metabolism, Respiration and Flight in <i>Drosophila</i> . <i>Genetics</i> , 2003, 165, 623-635.	2.9	106
14	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
15	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
16	Surface-Skimming Stoneflies: A Possible Intermediate Stage in Insect Flight Evolution. <i>Science</i> , 1994, 266, 427-430.	12.6	89
17	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
18	A Pathway Analysis of Melanin Patterning in a Hemimetabolous Insect. <i>Genetics</i> , 2016, 203, 403-413.	2.9	69

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19	The constructal unification of biological and geophysical design. <i>Physics of Life Reviews</i> , 2009, 6, 85-102.	2.8	68
20	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
21	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
22	Origin and diversification of wings: Insights from a neopteran insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15946-15951.	7.1	64
23	Functional genomics of life history variation in a butterfly metapopulation. <i>Molecular Ecology</i> , 2011, 20, 1813-1828.	3.9	63
24	Quantitative and evolutionary biology of alternative splicing: how changing the mix of alternative transcripts affects phenotypic plasticity and reaction norms. <i>Heredity</i> , 2008, 100, 111-120.	2.6	61
25	Nature's inordinate fondness for metabolic enzymes: why metabolic enzyme loci are so frequently targets of selection. <i>Molecular Ecology</i> , 2013, 22, 5743-5764.	3.9	59
26	Alternative splicing, muscle contraction and intraspecific variation: associations between troponin T transcripts, Ca ²⁺ 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
27	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
28	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
29	Scaling of maximum net force output by motors used for locomotion. <i>Journal of Experimental Biology</i> , 2005, 208, 1653-1664.	1.7	47
30	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
31	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
32	Nucleotide Polymorphism at a Gene (Pgi) under Balancing Selection in a Butterfly Metapopulation. <i>Molecular Biology and Evolution</i> , 2010, 27, 267-281.	8.9	41
33	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
34	Locomotor performance of insects with rudimentary wings. <i>Nature</i> , 1995, 377, 332-334.	27.8	40
35	GENETIC VARIATION IN HIF SIGNALING UNDERLIES QUANTITATIVE VARIATION IN PHYSIOLOGICAL AND LIFE-HISTORY TRAITS WITHIN LOWLAND BUTTERFLY POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1105-1115.	2.3	39
36	Alternative splicing, muscle contraction and intraspecific variation: associations between troponin T transcripts, Ca ⁽²⁺⁾ 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

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37	Weight and nutrition affect pre-mRNA splicing of a muscle gene associated with performance, energetics and life history. <i>Journal of Experimental Biology</i> , 2008, 211, 3653-3660.	1.7	35
38	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
39	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
40	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
41	Maximum Load-Lifting and Induced Power Output of Harris™ Hawks are General Functions of Flight Muscle Mass. <i>Journal of Experimental Biology</i> , 1990, 149, 511-514.	1.7	28
42	Scaling Laws in Robotics. <i>Procedia Computer Science</i> , 2011, 7, 250-252.	2.0	27
43	Body weight-dependent troponin T alternative splicing is evolutionarily conserved from insects to mammals and is partially impaired in skeletal muscle of obese rats. <i>Journal of Experimental Biology</i> , 2011, 214, 1523-1532.	1.7	26
44	Filling Adeno-Associated Virus Capsids: Estimating Success by Cryo-Electron Microscopy. <i>Human Gene Therapy</i> , 2019, 30, 1449-1460.	2.7	25
45	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
46	Cascading effects of host plant inbreeding on the larval growth, muscle molecular composition, and flight capacity of an adult herbivorous insect. <i>Functional Ecology</i> , 2015, 29, 328-337.	3.6	23
47	Plecopteran Surface-Skimming and Insect Flight Evolution. <i>Science</i> , 1995, 270, 1684-1684.	12.6	22
48	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
49	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
50	Inbreeding compromises host plant defense gene expression and improves herbivore survival. <i>Plant Signaling and Behavior</i> , 2015, 10, e998548.	2.4	19
51	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
52	Insights into the Development and Evolution of Exaggerated Traits Using De Novo Transcriptomes of Two Species of Horned Scarab Beetles. <i>PLoS ONE</i> , 2014, 9, e88364.	2.5	15
53	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
54	REANALYSIS AND EXPERIMENTAL EVIDENCE INDICATE THAT THE EARLIEST TRACE FOSSIL OF A WINGED INSECT WAS A SURFACE-SKIMMING NEOPTERAN. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 274-280.	2.3	11

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55	Resistance Genes Affect How Pathogens Maintain Plant Abundance and Diversity. <i>American Naturalist</i> , 2020, 196, 472-486.	2.1	11
56	Almost airborne. <i>Nature</i> , 1997, 385, 403-404.	27.8	9
57	Metabolic Syndrome in Insects Triggered by Gut Microbes. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 794-796.	2.2	9
58	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
59	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
60	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
61	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
62	REPLY TO "COMMENT ON MARDEN (2013) REGARDING THE INTERPRETATION OF THE EARLIEST TRACE FOSSIL OF A WINGED INSECT". <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2150-2153.	2.3	4
63	Covariation in abscission force and terminal velocity of windborne sibling seeds alters long-distance dispersal projections. <i>Methods in Ecology and Evolution</i> , 2015, 6, 593-599.	5.2	4
64	Evolution and physiology of flight in aquatic insects.. , 2008, , 230-249.		4
65	Discovery of antitumor lectins from rainforest tree root transcriptomes. <i>PLoS ONE</i> , 2020, 15, e0229467.	2.5	3
66	Functional and Ecological Effects of Isoform Variation in Insect Flight Muscle. , 2006, , 214-229.		2
67	Antipredator behavior by a nesting hummingbird in response to a caterpillar with eyespots. <i>Ecology</i> , 2019, 100, e02582.	3.2	0
68	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
69	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
70	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0
71	Discovery of antitumor lectins from rainforest tree root transcriptomes. , 2020, 15, e0229467.		0