

James H Brown

List of Publications by Year in descending order

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90
papers

27,671
citations

43973

48
h-index

51492

86
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96
all docs

96
docs citations

96
times ranked

25530
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal rules of life: metabolic rates, biological times and the equal fitness paradigm. <i>Ecology Letters</i> , 2021, 24, 1262-1281.	3.0	38
2	Energy use and the sustainability of intensifying food production. <i>Nature Sustainability</i> , 2020, 3, 257-259.	11.5	23
3	Declining Country-Level Food Self-Sufficiency Suggests Future Food Insecurities. <i>BioPhysical Economics and Resource Quality</i> , 2019, 4, 1.	2.4	16
4	Metabolic asymmetry and the global diversity of marine predators. <i>Science</i> , 2019, 363, .	6.0	81
5	The Central Role of Energy in the Urban Transition: Global Challenges for Sustainability. <i>BioPhysical Economics and Resource Quality</i> , 2019, 4, 1.	2.4	19
6	Toward a metabolic theory of life history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26653-26661.	3.3	54
7	The genesis of macroecology: In memory of Brian Maurer. <i>Global Ecology and Biogeography</i> , 2019, 28, 4-5.	2.7	2
8	Equal fitness paradigm explained by a trade-off between generation time and energy production rate. <i>Nature Ecology and Evolution</i> , 2018, 2, 262-268.	3.4	75
9	The shark-tuna dichotomy: why tuna lay tiny eggs but sharks produce large offspring. <i>Royal Society Open Science</i> , 2018, 5, 180453.	1.1	11
10	Correspondence: Reply to "Analytical flaws in a continental-scale forest soil microbial diversity study". <i>Nature Communications</i> , 2017, 8, 15583.	5.8	4
11	Long-term monitoring and experimental manipulation of a Chihuahuan desert ecosystem near Portal, Arizona (1977-2013). <i>Ecology</i> , 2016, 97, 1082-1082.	1.5	25
12	Temperature mediates continental-scale diversity of microbes in forest soils. <i>Nature Communications</i> , 2016, 7, 12083.	5.8	419
13	Energy and time determine scaling in biological and computer designs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150446.	1.8	12
14	The macroecology of infectious diseases: a new perspective on global-scale drivers of pathogen distributions and impacts. <i>Ecology Letters</i> , 2016, 19, 1159-1171.	3.0	126
15	Biogeographic patterns of soil diazotrophic communities across six forests in the North America. <i>Molecular Ecology</i> , 2016, 25, 2937-2948.	2.0	76
16	Metabolic heat production and thermal conductance are mass-independent adaptations to thermal environment in birds and mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15934-15939.	3.3	77
17	Metabolic theory predicts whole-ecosystem properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2617-2622.	3.3	117
18	Human domination of the biosphere: Rapid discharge of the earth-space battery foretells the future of humankind. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9511-9517.	3.3	80

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19	Fundamental insights into ontogenetic growth from theory and fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13934-13939.	3.3	45
20	Why are there so many species in the tropics?. <i>Journal of Biogeography</i> , 2014, 41, 8-22.	1.4	608
21	Rates of biotic interactions scale predictably with temperature despite variation. <i>Oikos</i> , 2014, 123, 1449-1456.	1.2	43
22	Macroecology meets macroeconomics: Resource scarcity and global sustainability. <i>Ecological Engineering</i> , 2014, 65, 24-32.	1.6	49
23	Why Marine Islands Are Farther Apart in the Tropics. <i>American Naturalist</i> , 2014, 183, 842-846.	1.0	14
24	Ecological roles and conservation challenges of social, burrowing, herbivorous mammals in the world's grasslands. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 477-486.	1.9	247
25	The role of phylogeny in desert rodent community assembly. <i>Journal of Animal Ecology</i> , 2012, 81, 307-309.	1.3	2
26	The ecology of lizard reproductive output. <i>Global Ecology and Biogeography</i> , 2012, 21, 592-602.	2.7	84
27	Interspecific pairwise relationships among body size, clutch size and latitude: deconstructing a macroecological triangle in birds. <i>Journal of Biogeography</i> , 2010, 37, 47-56.	1.4	16
28	Redundant or complementary? Impact of a colonizing species on community structure and function. <i>Oikos</i> , 2010, 119, 1719-1726.	1.2	32
29	Shifts in metabolic scaling, production, and efficiency across major evolutionary transitions of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12941-12945.	3.3	341
30	Response to Comments on "Energy Uptake and Allocation During Ontogeny". <i>Science</i> , 2009, 325, 1206-1206.	6.0	12
31	Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 24-27.	3.3	260
32	Long-term monitoring and experimental manipulation of a Chihuahuan Desert ecosystem near Portal, Arizona, USA. <i>Ecology</i> , 2009, 90, 1708-1708.	1.5	39
33	Native fishes, exotic mammals, and the conservation of desert springs. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 549-553.	1.9	71
34	Dynamics of fish in Australian desert springs: role of large-mammal disturbance. <i>Diversity and Distributions</i> , 2007, 13, 789-798.	1.9	12
35	INTRA-GUILD COMPENSATION REGULATES SPECIES RICHNESS IN DESERT RODENTS: REPLY. <i>Ecology</i> , 2006, 87, 2121-2125.	1.5	8
36	The island rule and a research agenda for studying ecogeographical patterns. <i>Journal of Biogeography</i> , 2006, 33, 1503-1510.	1.4	111

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37	Life-history evolution under a production constraint. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17595-17599.	3.3	134
38	INTRA-GUILD COMPENSATION REGULATES SPECIES RICHNESS IN DESERT RODENTS. Ecology, 2005, 86, 567-573.	1.5	33
39	RESPONSE TO FORUM COMMENTARY ON "TOWARD A METABOLIC THEORY OF ECOLOGY". Ecology, 2004, 85, 1818-1821.	1.5	47
40	Energetic determinants of abundance in winter landbird communities. Ecology Letters, 2004, 7, 532-537.	3.0	84
41	Was a "hyperdisease" responsible for the late Pleistocene megafaunal extinction?. Ecology Letters, 2004, 7, 859-868.	3.0	35
42	An Essay on Some Topics Concerning Invasive Species. Austral Ecology, 2004, 29, 530-536.	0.7	149
43	TOWARD A METABOLIC THEORY OF ECOLOGY. Ecology, 2004, 85, 1771-1789.	1.5	5,745
44	Allometry of human fertility and energy use. Ecology Letters, 2003, 6, 295-300.	3.0	56
45	Thermodynamic and metabolic effects on the scaling of production and population energy use. Ecology Letters, 2003, 6, 990-995.	3.0	215
46	How reliable is the biological time clock?. Nature, 2003, 424, 270-270.	13.7	5
47	Response to Comment on "Global Biodiversity, Biochemical Kinetics, and the Energetic-Equivalence Rule". Science, 2003, 299, 346c-346.	6.0	11
48	Ecological food webs: High-quality data facilitate theoretical unification. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1467-1468.	3.3	184
49	Assembly Rules and Competition in Desert Rodents. American Naturalist, 2002, 160, 815-818.	1.0	40
50	The fractal nature of nature: power laws, ecological complexity and biodiversity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 619-626.	1.8	320
51	Timescale of Perennial Grass Recovery in Desertified Arid Grasslands Following Livestock Removal. Conservation Biology, 2002, 16, 995-1002.	2.4	131
52	Effects of size and temperature on developmental time. Nature, 2002, 417, 70-73.	13.7	798
53	Long-term dynamics of winter and summer annual communities in the Chihuahuan Desert. Journal of Vegetation Science, 2002, 13, 575-584.	1.1	38
54	Long-term dynamics of winter and summer annual communities in the Chihuahuan Desert. , 2002, 13, 575.		4

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55	Delayed Compensation for Missing Keystone Species by Colonization. <i>Science</i> , 2001, 292, 101-104.	6.0	89
56	Regulation of diversity: maintenance of species richness in changing environments. <i>Oecologia</i> , 2001, 126, 321-332.	0.9	273
57	Effects of Size and Temperature on Metabolic Rate. <i>Science</i> , 2001, 293, 2248-2251.	6.0	2,927
58	HOMEOSTASIS AND COMPENSATION: THE ROLE OF SPECIES AND RESOURCES IN ECOSYSTEM STABILITY. <i>Ecology</i> , 2001, 82, 2118-2132.	1.5	46
59	Abundance and distribution of desert annuals: are spatial and temporal patterns related?. <i>Journal of Ecology</i> , 2000, 88, 551-560.	1.9	58
60	CONSTRAINTS OF SEED SIZE ON PLANT DISTRIBUTION AND ABUNDANCE. <i>Ecology</i> , 2000, 81, 2149-2155.	1.5	112
61	GAPS IN MAMMALIAN BODY SIZE DISTRIBUTIONS REEXAMINED. <i>Ecology</i> , 1999, 80, 2788-2792.	1.5	41
62	Invasion of North American drainages by alien fish species. <i>Freshwater Biology</i> , 1999, 42, 387-399.	1.2	186
63	Patterns in the structure of Asian and North American desert small mammal communities. <i>Journal of Biogeography</i> , 1999, 26, 825-841.	1.4	31
64	Allometric scaling of production and life-history variation in vascular plants. <i>Nature</i> , 1999, 401, 907-911.	13.7	570
65	The Fourth Dimension of Life: Fractal Geometry and Allometric Scaling of Organisms. <i>Science</i> , 1999, 284, 1677-1679.	6.0	1,459
66	GAPS IN MAMMALIAN BODY SIZE DISTRIBUTIONS REEXAMINED. , 1999, 80, 2788.		3
67	Constraints on dispersal and the evolution of the avifauna of the Northern Hemisphere. <i>Evolutionary Ecology</i> , 1998, 12, 767-783.	0.5	72
68	A General Model for the Origin of Allometric Scaling Laws in Biology. <i>Science</i> , 1997, 276, 122-126.	6.0	4,069
69	Interactions between winter and summer annuals in the Chihuahuan Desert. <i>Oecologia</i> , 1997, 111, 123-128.	0.9	45
70	Historical and Cultural Perspectives on Grazing: Reply to Dudley. <i>Conservation Biology</i> , 1997, 11, 270-272.	2.4	5
71	THE GEOGRAPHIC RANGE: Size, Shape, Boundaries, and Internal Structure. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1996, 27, 597-623.	6.7	1,097
72	Temporal fluctuations and experimental effects in desert plant communities. <i>Oecologia</i> , 1996, 107, 568-577.	0.9	50

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73	Individualistic responses of bird species to environmental change. <i>Oecologia</i> , 1995, 101, 478-486.	0.9	41
74	Catastrophic Decline of a Desert Rodent, <i>Dipodomys spectabilis</i> : Insights from a Long-Term Study. <i>Journal of Mammalogy</i> , 1995, 76, 428-436.	0.6	41
75	Global Patterns of Mammalian Diversity, Endemism, and Endangerment. <i>Conservation Biology</i> , 1995, 9, 559-568.	2.4	198
76	Livestock Grazing and Conservation on Southwestern Rangelands. <i>Conservation Biology</i> , 1995, 9, 1644-1647.	2.4	94
77	Effects of kangaroo rat exclusion on vegetation structure and plant species diversity in the Chihuahuan Desert. <i>Oecologia</i> , 1993, 95, 520-524.	0.9	130
78	THE MICRO AND MACRO IN BODY SIZE EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 939-953.	1.1	178
79	Control of a Desert-Grassland Transition by a Keystone Rodent Guild. <i>Science</i> , 1990, 250, 1705-1707.	6.0	546
80	Independent Discovery of the Equilibrium Theory of Island Biogeography. <i>Ecology</i> , 1989, 70, 1954-1957.	1.5	50
81	A Method for Distinguishing Dispersal from Death in Mark-Recapture Studies. <i>Journal of Mammalogy</i> , 1987, 68, 656-665.	0.6	23
82	Evolution of Species Assemblages: Effects of Energetic Constraints and Species Dynamics on the Diversification of the North American Avifauna. <i>American Naturalist</i> , 1987, 130, 1-17.	1.0	370
83	Body size, energy use and ecological dominance. <i>Nature</i> , 1987, 328, 118-118.	13.7	3
84	Body size, ecological dominance and Cope's rule. <i>Nature</i> , 1986, 324, 248-250.	13.7	324
85	Community Organization in Hummingbirds: Relationships between Morphology and Ecology. <i>Auk</i> , 1985, 102, 251-269.	0.7	93
86	On the Relationship between Abundance and Distribution of Species. <i>American Naturalist</i> , 1984, 124, 255-279.	1.0	2,647
87	Summer Rainfall and Winter Sparrow Densities: A Test of the Food Limitation Hypothesis. <i>Auk</i> , 1982, 99, 123-129.	0.7	76
88	Two Decades of Homage to Santa Rosalia: Toward a General Theory of Diversity. <i>American Zoologist</i> , 1981, 21, 877-888.	0.7	424
89	The Use of Torpor by <i>Perognathus amplus</i> in Relation to Resource Distribution. <i>Journal of Mammalogy</i> , 1979, 60, 550-555.	0.6	19
90	The Changing Role of Women in North American Mammalogy. <i>Journal of Mammalogy</i> , 0, , .	0.6	1