Terence J Dawson

List of Publications by Year
in descending order

56 papers	2,196 citations	186209 28 h-index	223716 46 g-index
56 all docs	56 docs citations	56 times ranked	1229 citing authors

#	Article	IF	Citations
1	Energetic Cost of Locomotion in Kangaroos. Nature, 1973, 246, 313-314.	13.7	414
2	Effect of thermal conductance on water economy in the antelope jack rabbit,Lepus alleni. Journal of Cellular Physiology, 1966, 67, 463-471.	2.0	120
3	Physiological Mechanisms in Coping with Climate Change. Physiological and Biochemical Zoology, 2010, 83, 713-720.	0.6	108
4	Fiber Digestion in the Emu, Dromaius novaehollandiae, a Large Bird with a Simple Gut and High Rates of Passage. Physiological Zoology, 1984, 57, 70-84.	1.5	84
5	Energetics and biomechanics of locomotion by red kangaroos (Macropus rufus). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 120, 41-49.	0.7	81
6	Diets of mammalian herbivores in Australian arid shrublands: seasonal effects on overlap between red kangaroos, sheep and rabbits and on dietary niche breadths and electivities. Journal of Arid Environments, 1994, 26, 257-271.	1.2	73
7	Water usage and diet preferences of free ranging kangaroos, sheep and feral goats in the Australian arid zone during summer. Journal of Zoology, 1975, 177, 1-23.	0.8	70
8	The kangaroo's tail propels and powers pentapedal locomotion. Biology Letters, 2014, 10, 20140381.	1.0	61
9	Thermoregulation by Kangaroos from Mesic and Arid Habitats: Influence of Temperature on Routes of Heat Loss in Eastern Grey Kangaroos (Macropus giganteus) and Red Kangaroos (Macropus rufus). Physiological and Biochemical Zoology, 2000, 73, 374-381.	0.6	56
10	Thermal balance of the macropodid marsupial Macropus eugenii desmarest. Comparative Biochemistry and Physiology, 1969, 31, 645-653.	1.1	48
11	Thermoregulatory responses of the arid zone kangaroos, Megaleia rufa and Macropus robustus. Comparative Biochemistry and Physiology A, Comparative Physiology, 1973, 46, 153-169.	0.7	48
12	The fur of mammals in exposed environments; do crypsis and thermal needs necessarily conflict? The polar bear and marsupial koala compared. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 273-284.	0.7	48
13	Thermal and Energetic Problems of Semiaquatic Mammals: A Study of the Australian Water Rat, including Comparisons with the Platypus. Physiological Zoology, 1981, 54, 285-296.	1.5	47
14	Temperature regulation and evaporative water loss in the brush-tailed possum Trichosurus vulpecula. Comparative Biochemistry and Physiology, 1969, 28, 401-407.	1.1	46
15	Metabolic scope and conductance in response to cold of some dasyurid marsupials and Australian rodents. Comparative Biochemistry and Physiology A, Comparative Physiology, 1982, 71, 59-64.	0.7	46
16	Standard Energy Metabolism of Marsupials. Nature, 1969, 221, 383-383.	13.7	43
17	Resting metabolic rates of ratite birds: The kiwis and the emu. Comparative Biochemistry and Physiology A, Comparative Physiology, 1978, 60, 479-481.	0.7	43
18	A comparison of the insulative and reflective properties of the fur of desert kangaroos. Comparative Biochemistry and Physiology, 1970, 37, 23-38.	1.1	42

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19	Digestion in the emu: Low energy and nitrogen requirements of this large ratite bird. Comparative Biochemistry and Physiology A, Comparative Physiology, 1983, 75, 41-45.	0.7	39
20	Water use and the thermoregulatory behaviour of kangaroos in arid regions: insights into the colonisation of arid rangelands in Australia by the Eastern Grey Kangaroo (Macropus giganteus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2006, 176, 45-53.	0.7	39
21	Metabolism, thermoregulation and torpor in shrew sized marsupials of the genus planigale. Comparative Biochemistry and Physiology A, Comparative Physiology, 1978, 59, 305-309.	0.7	38
22	Energetic cost of locomotion in Australian hopping mice. Nature, 1976, 259, 305-307.	13.7	37
23	Diets of mammalian herbivores in Australian arid, hilly shrublands: seasonal effects on overlap between euros (hill kangaroos), sheep and feral goats, and on dietary niche breadths and electivities. Journal of Arid Environments, 1996, 34, 491-506.	1.2	36
24	Forage fibre digestion, rates of feed passage and gut fill in juvenile and adult red kangaroos Macropus rufus Desmarest: why body size matters. Journal of Experimental Biology, 2006, 209, 1535-1547.	0.8	36
25	Ventilatory Accommodation of Oxygen Demand and Respiratory Water Loss in Kangaroos from Mesic and Arid Environments, the Eastern Grey Kangaroo (Macropus giganteus) and the Red Kangaroo (Macropus rufus). Physiological and Biochemical Zoology, 2000, 73, 382-388.	0.6	34
26	Kangaroos. , 2012, , .		34
27	Cardiovascular characteristics of two resting marsupials: An insight into the cardio-respiratory allometry of marsupials. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 145, 95-100.	0.7	30
28	Ventilatory Accommodation of Changing Oxygen Consumption in Dasyurid Marsupials. Physiological Zoology, 1994, 67, 418-437.	1.5	30
29	A Bioclimatological Comparison of the Summer Day Microenvironments of Two Species of Arid-Zone Kangaroo. Ecology, 1969, 50, 328-332.	1.5	29
30	The heat load from solar radiation on a large, diurnally active bird, the emu (Dromaius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (nov	1.1	25
31	The cuscus (Phalanger maculatus) ? a marsupial sloth?. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1973, 83, 41-50.	0.7	23
32	Changes in the thermal balance of a marsupial (Dasyuroides byrnei) during cold and warm acclimation. Journal of Thermal Biology, 1984, 9, 199-204.	1.1	22
33	The role of the kidney in electrolyte and nitrogen excretion in a large flightless bird, the emu, during different osmotic regimes, including dehydration and nesting. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1991, 161, 165.	0.7	22
34	Seasonal variations in the body temperatures of unrestrained kangaroos (Macropodidae: Marsupialia). Comparative Biochemistry and Physiology A, Comparative Physiology, 1977, 56, 59-67.	0.7	19
35	â€œPRIMITIVEâ€•MAMMALS. , 1973, , 1-46.		17
36	Thermoregulation in Juvenile Red Kangaroos (Macropus rufus) after Pouch Exit: Higher Metabolism and Evaporative Water Requirements. Physiological and Biochemical Zoology, 2001, 74, 917-927.	0.6	17

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37	Use of helium-oxygen to examine the effect of cold acclimation on the summit metabolism of a marsupial, Dasyuroides byrnei. Comparative Biochemistry and Physiology A, Comparative Physiology, 1985, 81, 445-449.	0.7	16
38	Body temperature, water flux and estimated energy expenditure of incubating emus (Dromaius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.7	16
39	Digestive function in Australian magpie geese (Anseranas semipalmata). Australian Journal of Zoology, 2000, 48, 265.	0.6	16
40	Observations of differential sex/age class mobility in red kangaroos (Macropus rufus). Journal of Arid Environments, 1994, 27, 169-177.	1.2	15
41	Aerobic characteristics of red kangaroo skeletal muscles: is a high aerobic capacity matched by muscle mitochondrial and capillary morphology as in placental mammals?. Journal of Experimental Biology, 2004, 207, 2811-2821.	0.8	15
42	Gas exchange in the lung of a dasyurid marsupial: morphometric estimation of diffusion capacity and blood oxygen uptake kinetics. Respiration Physiology, 1989, 77, 309-322.	2.8	14
43	Thermal and Water Relations of Emu Eggs during Natural Incubation. Physiological Zoology, 1988, 61, 483-494.	1.5	13
44	Dehydration, with and without heat, in kangaroos from mesic and arid habitats: different thermal responses including varying patterns in heterothermy in the field and laboratory. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 797-807.	0.7	13
45	Water use and feeding patterns of the marsupial western grey kangaroo (Macropus fuliginosus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 livestock, the Merino sheep (Ovis aries). Mammalian Biology, 2014, 79, 1-8.	0.8	11
46	Influence of the respiratory response to moderate and severe heat on the blood gas values of a macropodid marsupial (Macropus eugenii). Comparative Biochemistry and Physiology, 1970, 37, 59-66.	1.1	9
47	Muscle mitochondrial volume and aerobic capacity in a small marsupial (Sminthopsis) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 levels in mammals generally.. Journal of Experimental Biology, 2013, 216, 1330-7.	0.8	9
48	Endogenous Nitrogen Excretion by Red Kangaroos (Macropus rufus): Effects of Animal Age and Forage Quality. Physiological and Biochemical Zoology, 2006, 79, 424-436.	0.6	8
49	The burden of size and growth for the juveniles of large mammalian herbivores: Structural and functional constraints in the feeding biology of juveniles relative to adults in red kangaroos, Osphranter rufus. Ecology and Evolution, 2021, 11, 9062-9078.	0.8	7
50	How much do kangaroos of differing age and size eat relative to domestic stock?: implications for the arid rangelands. , 2007, , 96-101.		7
51	EFFECT OF ANAEMIA ON OXYGEN TRANSPORT IN SHEEP WITH DIFFERENT HAEMOGLOBIN TYPES. The Australian Journal of Experimental Biology and Medical Science, 1967, 45, 437-444.	0.7	6
52	Thermal implications of interactions between insulation, solar reflectance, and fur structure in the summer coats of diverse species of kangaroo. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 517-528.	0.7	6
53	Ventilation patterns in red kangaroos (Macropus rufusDesmarest): juveniles work harder than adults at thermal extremes, but extract more oxygen per breath at thermoneutrality. Journal of Experimental Biology, 2007, 210, 2723-2729.	0.8	4
54	The high aerobic capacity of a small, marsupial rat-kangaroo (Bettongia penicillata) is matched by the mitochondrial and capillary morphology of its skeletal muscles. Journal of Experimental Biology, 2012, 215, 3223-30.	0.8	4

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55	Emu Winter Incubation: Thermal, Water, and Energy Relations. , 1989, , 315-324.		2
56	Relationship between oxygen consumption and hypoxia in sheep with different haemoglobins. Life Sciences, 1966, 5, 679-685.	2.0	0