

Raoul Van Damme

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

4,452
citations

117571

34
h-index

123376

61
g-index

106
all docs

106
docs citations

106
times ranked

3337
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance constraints in decathletes. <i>Nature</i> , 2002, 415, 755-756.	13.7	289
2	Evolution of Sprint Speed in Lacertid Lizards: Morphological, Physiological and Behavioral Covariation. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 848.	1.1	278
3	Rapid large-scale evolutionary divergence in morphology and performance associated with exploitation of a different dietary resource. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4792-4795.	3.3	219
4	SPEED AND STAMINA TRADE-OFF IN LACERTID LIZARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1040.	1.1	149
5	Altitudinal variation of the thermal biology and running performance in the lizard <i>Podarcis tiliguerta</i> . <i>Oecologia</i> , 1989, 80, 516-524.	0.9	140
6	EVOLUTION OF SPRINT SPEED IN LACERTID LIZARDS: MORPHOLOGICAL, PHYSIOLOGICAL, AND BEHAVIORAL COVARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 848-863.	1.1	136
7	Are lizards feeling the heat? A tale of ecology and evolution under two temperatures. <i>Global Ecology and Biogeography</i> , 2013, 22, 834-845.	2.7	116
8	Evolutionary maintenance of sexual dimorphism in head size in the lizard <i>Zootoca vivipara</i> : a test of two hypotheses. <i>Journal of Zoology</i> , 2003, 259, 7-13.	0.8	110
9	LOCOMOTOR COMPENSATION CREATES A MISMATCH BETWEEN LABORATORY AND FIELD ESTIMATES OF ESCAPE SPEED IN LIZARDS: A CAUTIONARY TALE FOR PERFORMANCE-TO-FITNESS STUDIES. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1579-1587.	1.1	107
10	Evolutionary Rigidity of Thermal Physiology: The Case of the Cool Temperate Lizard <i>Lacerta vivipara</i> . <i>Oikos</i> , 1990, 57, 61.	1.2	97
11	Effects of habitat fragmentation on provisioning rates, diet and breeding success in two species of tit (great tit and blue tit). <i>Oecologia</i> , 1998, 114, 522-530.	0.9	97
12	Selected body temperatures in the lizard <i>Lacerta vivipara</i> : Variation within and between populations. <i>Journal of Thermal Biology</i> , 1986, 11, 219-222.	1.1	96
13	Evolution of Herbivory in Lacertid Lizards: Effects of Insularity and Body Size. <i>Journal of Herpetology</i> , 1999, 33, 663.	0.2	93
14	Morphology, performance, behavior and ecology of three color morphs in males of the lizard <i>Podarcis melisellensis</i> . <i>Integrative and Comparative Biology</i> , 2007, 47, 211-220.	0.9	92
15	A functional approach to sexual selection. <i>Functional Ecology</i> , 2007, 21, 621-626.	1.7	91
16	Spatio-temporal gait characteristics of the hind-limb cycles during voluntary bipedal and quadrupedal walking in bonobos (<i>Pan paniscus</i>). , 2000, 111, 503-517.		90
17	It is all in the head: morphological basis for differences in bite force among colour morphs of the Dalmatian wall lizard. <i>Biological Journal of the Linnean Society</i> , 0, 96, 13-22.	0.7	73
18	Responses of the lizard <i>Lacerta vivipara</i> to predator chemical cues: the effects of temperature. <i>Animal Behaviour</i> , 1990, 40, 298-305.	0.8	70

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19	THE QUICK AND THE FAST: THE EVOLUTION OF ACCELERATION CAPACITY IN ANOLIS LIZARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2137-2147.	1.1	69
20	Relationships between hormones, physiological performance and immunocompetence in a color-polymorphic lizard species, <i>Podarcis melisellensis</i> . <i>Hormones and Behavior</i> , 2009, 55, 488-494.	1.0	69
21	Trade-offs between speed and endurance in the frog <i>Xenopus laevis</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1145-1152.	0.8	69
22	Bipedalism in lizards: whole-body modelling reveals a possible spandrel. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1525-1533.	1.8	67
23	Micro-scale differences in thermal habitat quality and a possible case of evolutionary flexibility in the thermal physiology of lacertid lizards. <i>Oecologia</i> , 2002, 132, 323-331.	0.9	65
24	Seasonal changes in parasite load and a cellular immune response in a colour polymorphic lizard. <i>Oecologia</i> , 2010, 163, 867-874.	0.9	65
25	The relationship between dewlap size and performance changes with age and sex in a Green Anole (<i>Anolis carolinensis</i>) lizard population. <i>Behavioral Ecology and Sociobiology</i> , 2005, 59, 157-165.	0.6	56
26	Chemical signalling in lizards: an interspecific comparison of femoral pore numbers in Lacertidae. <i>Biological Journal of the Linnean Society</i> , 2015, 114, 44-57.	0.7	54
27	Chemosensory predator recognition in the lizard <i>Podarcis hispanica</i> : Effects of predation pressure relaxation. <i>Journal of Chemical Ecology</i> , 1996, 22, 13-22.	0.9	53
28	Variation in speed, gait characteristics and microhabitat use in lacertid lizards. <i>Journal of Experimental Biology</i> , 2002, 205, 1037-1046.	0.8	53
29	Functional and ecological relevance of intraspecific variation in body size and shape in the lizard <i>Podarcis melisellensis</i> (Lacertidae). <i>Biological Journal of the Linnean Society</i> , 0, 94, 251-264.	0.7	52
30	Evolution and role of the follicular epidermal gland system in non-ophidian squamates. <i>Amphibia - Reptilia</i> , 2015, 36, 185-206.	0.1	50
31	Effect of Relative Clutch Mass on Sprint Speed in the Lizard <i>Lacerta vivipara</i> . <i>Journal of Herpetology</i> , 1989, 23, 459.	0.2	49
32	Physiological colour change in the Moorish gecko, <i>Tarentola mauritanica</i> (Squamata: Gekkonidae): effects of background, light, and temperature. <i>Biological Journal of the Linnean Society</i> , 2012, 107, 182-191.	0.7	46
33	Consistency and variation in the bat assemblages inhabiting two forest islands within a neotropical savanna in Bolivia. <i>Journal of Tropical Ecology</i> , 2003, 19, 367-374.	0.5	45
34	Environmental conditions shape the chemical signal design of lizards. <i>Functional Ecology</i> , 2018, 32, 566-580.	1.7	45
35	The island syndrome. <i>Current Biology</i> , 2020, 30, R338-R339.	1.8	41
36	The mystery of the missing toes: extreme levels of natural mutilation in island lizard populations. <i>Functional Ecology</i> , 2009, 23, 996-1003.	1.7	40

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37	Anatomical and Physiological Changes Associated with a Recent Dietary Shift in the Lizard <i>Podarcis sicula</i> . <i>Physiological and Biochemical Zoology</i> , 2010, 83, 632-642.	0.6	40
38	Trade-offs between speed and endurance in the frog <i>Xenopus laevis</i> : a multi-level approach. <i>Journal of Experimental Biology</i> , 2002, 205, 1145-52.	0.8	37
39	Use of Predator Chemical Cues by Three Species of Lacertid Lizards (<i>Lacerta bedriagae</i> , <i>Podarcis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 0.2 36	0.2	36
40	Variation in speed, gait characteristics and microhabitat use in lacertid lizards. <i>Journal of Experimental Biology</i> , 2002, 205, 1037-46.	0.8	35
41	The effect of preservation on lizard morphometrics – an experimental study. <i>Amphibia - Reptilia</i> , 2009, 30, 321-329.	0.1	34
42	Hydrodynamic constraints on prey-capture performance in forward-striking snakes. <i>Journal of the Royal Society Interface</i> , 2010, 7, 773-785.	1.5	33
43	Speed versus manoeuvrability: association between vertebral number and habitat structure in lacertid lizards. <i>Journal of Zoology</i> , 2002, 258, 327-334.	0.8	32
44	TRITURUS NEWTS DEFY THE RUNNING-SWIMMING DILEMMA. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2110-2121.	1.1	32
45	Effects of testosterone on morphology, performance and muscle mass in a lizard. <i>Journal of Experimental Zoology</i> , 2010, 313A, 9-16.	1.2	32
46	Macroevolutionary diversification of glands for chemical communication in squamate reptiles. <i>Scientific Reports</i> , 2017, 7, 9288.	1.6	32
47	The evolution of thermal performance curves in semi-aquatic newts: Thermal specialists on land and thermal generalists in water?. <i>Journal of Thermal Biology</i> , 2008, 33, 395-403.	1.1	28
48	Wide home ranges for widely foraging lizards. <i>Zoology</i> , 2008, 111, 37-47.	0.6	28
49	Field Body Temperatures and Thermoregulatory Behavior of the High Altitude Lizard, <i>Lacerta bedriagae</i> . <i>Journal of Herpetology</i> , 1990, 24, 88.	0.2	27
50	Correlated evolution of aquatic prey-capture strategies in European and American natricine snakes. <i>Biological Journal of the Linnean Society</i> , 2006, 88, 73-83.	0.7	26
51	Female lizards ignore the sweet scent of success: Male characteristics implicated in female mate preference. <i>Zoology</i> , 2012, 115, 217-222.	0.6	26
52	Sex cells in changing environments: can organisms adjust the physiological function of gametes to different temperatures?. <i>Global Change Biology</i> , 2012, 18, 1797-1803.	4.2	26
53	Evolutionary morphology of the lizard chemosensory system. <i>Scientific Reports</i> , 2017, 7, 10141.	1.6	26
54	On dangerous ground: the evolution of body armour in cordyline lizards. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180513.	1.2	26

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55	Deterring predators, daunting opponents or drawing partners? Signaling rates across diverse contexts in the lizard <i>Anolis sagrei</i> . <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 173-184.	0.6	25
56	Messages conveyed by assorted facets of the dewlap, in both sexes of <i>Anolis sagrei</i> . <i>Behavioral Ecology and Sociobiology</i> , 2015, 69, 1251-1264.	0.6	24
57	Chemical communication in the lacertid lizard <i>Podarcis muralis</i> : the functional significance of testosterone. <i>Acta Zoologica</i> , 2017, 98, 94-103.	0.6	24
58	Do morphological condition indices predict locomotor performance in the lizard <i>Podarcis sicula</i> ?. <i>Acta Oecologica</i> , 2008, 34, 244-251.	0.5	22
59	Physiological change in an insular lizard population confirms the reversed island syndrome. <i>Biological Journal of the Linnean Society</i> , 2013, 108, 144-150.	0.7	22
60	Melanin-based colouration as a potential indicator of male quality in the lizard <i>Zootoca vivipara</i> (Squamata: Lacertidae). <i>Amphibia - Reptilia</i> , 2013, 34, 539-549.	0.1	22
61	Brain size, ecology and sociality: a reptilian perspective. <i>Biological Journal of the Linnean Society</i> , 2019, 126, 381-391.	0.7	22
62	Cannibalistic Propensities in the Lizard <i>Podarcis hispanica atrata</i> . <i>Copeia</i> , 1996, 1996, 991.	1.4	20
63	Foraging Mode and Its Flexibility in Lacertid Lizards From Europe. <i>Journal of Herpetology</i> , 2008, 42, 124-133.	0.2	20
64	Individual and among-population variation in dispersal-related traits in Natterjack toads. <i>Behavioral Ecology</i> , 2013, 24, 521-531.	1.0	20
65	Sexual selection and the chemical signal design of lacertid lizards. <i>Zoological Journal of the Linnean Society</i> , 2018, 183, 445-457.	1.0	18
66	Convergent Evolution of Claw Shape in a Transcontinental Lizard Radiation. <i>Integrative and Comparative Biology</i> , 2020, 60, 10-23.	0.9	18
67	SPEED AND STAMINA TRADE-OFF IN LACERTID LIZARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 1040-1048.	1.1	17
68	Intersexual chemo-sensation in a "visually-oriented" lizard, <i>Anolis sagrei</i> . <i>PeerJ</i> , 2016, 4, e1874.	0.9	17
69	Synchronization of Spring Molting with the Onset of Mating Behavior in Male Lizards, <i>Lacerta vivipara</i> . <i>Journal of Herpetology</i> , 1989, 23, 89.	0.2	16
70	Habitat use and vestibular system's dimensions in lacertid lizards. <i>Journal of Anatomy</i> , 2019, 235, 1-14.	0.9	16
71	Proximate Causes of Intraspecific Variation in Locomotor Performance in the Lizard <i>Gallotia galloti</i> . <i>Physiological and Biochemical Zoology</i> , 2001, 74, 937-945.	0.6	15
72	Fluctuating Asymmetry, Physiological Performance, and Stress in Island Populations of the Italian Wall Lizard (<i>Podarcis sicula</i>). <i>Journal of Herpetology</i> , 2008, 42, 369-377.	0.2	14

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73	The Role of Diet in Shaping the Chemical Signal Design of Lacertid Lizards. <i>Journal of Chemical Ecology</i> , 2017, 43, 902-910.	0.9	14
74	Bold and bright: shy and supple? The effect of habitat type on personality-cognition covariance in the Aegean wall lizard (<i>Podarcis erhardii</i>). <i>Animal Cognition</i> , 2022, 25, 745-767.	0.9	14
75	TRITURUS NEWTS DEFY THE RUNNING-SWIMMING DILEMMA. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2110.	1.1	12
76	Effects of phenotypic variation onto body temperature and flight activity in a polymorphic insect. <i>Physiological Entomology</i> , 2008, 33, 138-144.	0.6	12
77	Hunt or hide: How insularity and urbanization affect foraging decisions in lizards. <i>Ethology</i> , 2018, 124, 227-235.	0.5	12
78	Digit ratios in two lacertid lizards: sexual dimorphism and morphological and physiological correlates. <i>Zoomorphology</i> , 2015, 134, 565-575.	0.4	11
79	Predator-Prey Interactions Shape Thermal Patch Use in a Newt Larvae-Dragonfly Nymph Model. <i>PLoS ONE</i> , 2013, 8, e65079.	1.1	10
80	How to behave when marooned: the behavioural component of the island syndrome remains underexplored. <i>Biology Letters</i> , 2022, 18, 20220030.	1.0	10
81	Size-related changes in cranial morphology affect diet in the catfish <i>Clari allabes longicauda</i> . <i>Biological Journal of the Linnean Society</i> , 2007, 92, 323-334.	0.7	9
82	Foraging mode and locomotor capacities in Lacertidae. <i>Amphibia - Reptilia</i> , 2008, 29, 197-206.	0.1	9
83	The brown anole dewlap revisited: do predation pressure, sexual selection, and species recognition shape among-population signal diversity?. <i>PeerJ</i> , 2018, 6, e4722.	0.9	9
84	Exploration and spatial cognition show long-term repeatability but no heritability in the Aegean wall lizard. <i>Animal Behaviour</i> , 2022, 190, 167-185.	0.8	8
85	Dealing with the unexpected: the effect of environmental variability on behavioural flexibility in a Mediterranean lizard. <i>Behaviour</i> , 2021, 158, 1193-1223.	0.4	7
86	Evolutionary and biogeographical support for species-specific proteins in lizard chemical signals. <i>Biological Journal of the Linnean Society</i> , 0, , .	0.7	7
87	Intraspecific Variation in the Information Content of an Ornament: Why Relative Dewlap Size Signals Bite Force in Some, But Not All Island Populations of <i>Anolis sagrei</i> . <i>Integrative and Comparative Biology</i> , 2018, 58, 25-37.	0.9	6
88	Proton-transfer reaction time-of-flight mass spectrometry (PTR-TOF-MS) as a tool for studying animal volatile organic compound (VOC) emissions. <i>Methods in Ecology and Evolution</i> , 2021, 12, 748-766.	2.2	6
89	Parentage analyses suggest female promiscuity and a disadvantage for athletic males in the colour-polymorphic lizard <i>Podarcis melisellensis</i> . <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 1357-1366.	0.6	5
90	Water Stress Affects Development Time but Not Takeoff Performance in the Butterfly <i>Pararge aegeria</i> . <i>Physiological and Biochemical Zoology</i> , 2017, 90, 54-62.	0.6	5

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91	Convergent evolution of skin surface microarchitecture and increased skin hydrophobicity in semi-aquatic anole lizards. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	5
92	Notes on distribution and expansion of the range of the lizard <i>Psammmodromus algirus</i> in Northern Spain. <i>Amphibia - Reptilia</i> , 1986, 7, 389-392.	0.1	4
93	Where to do number two: Lizards prefer to defecate on the largest rock in the territory. <i>Behavioural Processes</i> , 2019, 167, 103937.	0.5	4
94	Trace element concentrations in caudal scutes from <i>Crocodylus moreletii</i> and <i>Crocodylus acutus</i> in Belize in relation to biological variables and land use. <i>Ecotoxicology and Environmental Safety</i> , 2022, 231, 113164.	2.9	4
95	THE QUICK AND THE FAST: THE EVOLUTION OF ACCELERATION CAPACITY IN ANOLIS LIZARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2137.	1.1	3
96	Chemosensory deficiency may render island-dwelling lizards more vulnerable to invasive predators. <i>Biological Journal of the Linnean Society</i> , 0, , .	0.7	3
97	Toxin variation among salamander populations: discussing potential causes and future directions. <i>Integrative Zoology</i> , 2021, 16, 336-353.	1.3	3
98	Morphometric characteristics of Alpine salamanders: a support for subspecies validation and conservation?. <i>Amphibia - Reptilia</i> , 2019, 40, 79-89.	0.1	2
99	Cracking the chemical code: European common lizards (<i>Zootoca vivipara</i>) respond to an hexane soluble predator kairomone. <i>Biochemical Systematics and Ecology</i> , 2020, 93, 104161.	0.6	2
100	The Asian grass lizard (<i>Takydromus sexlineatus</i>) does not respond to the scent of a native mammalian predator. <i>Ethology</i> , 2020, 126, 509-518.	0.5	1
101	The Effect of Long Term Captivity on Stress Levels in <i>Anolis carolinensis</i> Lizards. <i>Journal of Applied Animal Welfare Science</i> , 2021, 24, 321-330.	0.4	1
102	Differences in morphology, performance and behaviour between recently diverged populations of <i>Podarcis sicula</i> mirror differences in predation pressure. <i>Oikos</i> , 2007, 116, 1343-1352.	1.2	1
103	The gullible genius: fast learners fall for fake news. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, 1.	0.6	1
104	The (dis)advantages of dominance in a multiple male group of <i>Anolis carolinensis</i> lizards. <i>Zoology</i> , 2020, 139, 125747.	0.6	0