Richard Blob

List of Publications by Year in descending order

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102 2,594 27 46
papers citations h-index g-index

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#	Article	IF	CITATIONS
1	Anatomy informs geology: Hydrodynamic dispersal of alligator bones, with implications for taphonomic interpretations of fossil deposits of crocodylians, dinosaurs, and other morphologically novel taxa. Anatomical Record, 2023, 306, 1618-1630.	0.8	1
2	Assessing Occurrence and Biological Consequences of Contaminants of Emerging Concern on Oceanic Islands. Water (Switzerland), 2022, 14, 275.	1.2	2
3	Kinematic comparisons between mudskipper fins and salamander limbs during terrestrial locomotion. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2022, , .	0.9	3
4	Terrestrial force production by the limbs of a semi-aquatic salamander provides insight into the evolution of terrestrial locomotor mechanics. Journal of Experimental Biology, 2022, 225, .	0.8	6
5	Sucker Shapes, Skeletons, and Bioinspiration: How Hard and Soft Tissue Morphology Generates Adhesive Performance in Waterfall Climbing Goby Fishes. Integrative and Comparative Biology, 2022, 62, 934-944.	0.9	6
6	Bendy to the bone: Links between vertebral morphology and waterfall climbing in amphidromous gobioid fishes. Journal of Anatomy, 2021, 239, 747-754.	0.9	3
7	Thinking Inside the Box: Comparative Limb Bone Shape in Emydid Turtles. Journal of Herpetology, 2021, 55, .	0.2	O
8	Interactions among multiple selective pressures on the form–function relationship in insular stream fishes. Biological Journal of the Linnean Society, 2021, 134, 557-567.	0.7	3
9	Wading through water: effects of water depth and speed on the drag and kinematics of walking Chilean flamingos, <i>Phoenicopterus chilensis</i>). Journal of Experimental Biology, 2021, 224, .	0.8	3
10	Adhesive force and endurance of the pelvic sucker across different modes of waterfall-climbing in gobiid fishes: Contrasting climbing mechanisms share aspects of ontogenetic change. Zoology, 2021, 149, 125969.	0.6	9
11	Sticking to it: testing passive pull-off forces in waterfall-climbing fishes across challenging substrates. Journal of Experimental Biology, 2021, 224, .	0.8	6
12	Ontogenetic changes in limb posture, kinematics, forces and joint moments in American alligators (<i>Alligator mississippiensis</i>). Journal of Experimental Biology, 2021, 224, .	0.8	7
13	Variation in limb loading magnitude and timing in tetrapods. Journal of Experimental Biology, 2020, 223, .	0.8	25
14	Functional correlations of axial muscle fiber type proportions in the waterfallâ€climbing Hawaiian stream fish Sicyopterus stimpsoni. Journal of Anatomy, 2020, 236, 1160-1166.	0.9	4
15	Differences in kinematic plasticity between freshwater turtle species underlie differences in swimming performance in response to varying flow conditions. Biological Journal of the Linnean Society, 2019, 127, 762-770.	0.7	1
16	The Translation of Movement From the Equine to Rider With Relevance for Hippotherapy. Journal of Equine Veterinary Science, 2019, 77, 125-131.	0.4	1
17	Relationship of escape performance with predator regime and ontogeny in fishes. Biological Journal of the Linnean Society, 2019, 127, 324-336.	0.7	12
18	Evidence of local adaptation in a waterfall-climbing Hawaiian goby fish derived from coupled biophysical modeling of larval dispersal and post-settlement selection. BMC Evolutionary Biology, 2019, 19, 88.	3.2	9

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19	Variation in Morphology and Kinematics Underlies Variation in Swimming Stability and Turning Performance in Freshwater Turtles. Integrative Organismal Biology, 2019, 1, .	0.9	4
20	Comparative limb bone scaling in turtles: Phylogenetic transitions with changes in functional demands?. Journal of Morphology, 2019, 280, 593-603.	0.6	2
21	Functional Diversity of Evolutionary Novelties: Insights from Waterfall-Climbing Kinematics and Performance of Juvenile Gobiid Fishes. Integrative Organismal Biology, 2019, 1, obz029.	0.9	14
22	Pectoral and pelvic girdle rotations during walking and swimming in a semi-aquatic turtle: testing functional role and constraint. Journal of Experimental Biology, 2019, 222, .	0.8	6
23	Integrative Organismal Biology—A Journal We Want and Need. Integrative Organismal Biology, 2019, 1, .	0.9	0
24	The impact of keels and tails on turtle swimming performance and their potential as models for biomimetic design. Bioinspiration and Biomimetics, 2019, 14, 016002.	1.5	4
25	Biomechanical factors influencing successful self-righting in the pleurodire turtle, Emydura subglobosa. Journal of Experimental Biology, 2018, 221, .	0.8	6
26	Effects of Rider Experience Level on Horse Kinematics and Behavior. Journal of Equine Veterinary Science, 2018, 68, 68-72.	0.4	11
27	Intra―and interâ€specific morphological diversity of amphidromous gobies influences waterfallâ€climbing performance. Journal of Zoology, 2018, 306, 243-251.	0.8	14
28	Contrasting post-settlement selection results in many-to-one mapping of high performance phenotypes in the Hawaiian waterfall-climbing goby Sicyopterus stimpsoni. Evolutionary Ecology, 2017, 31, 489-516.	0.5	14
29	One foot out the door: limb function during swimming in terrestrial versus aquatic turtles. Biology Letters, 2017, 13, 20160732.	1.0	10
30	Hindlimb muscle function in turtles: is novel skeletal design correlated with novel muscle function?. Journal of Experimental Biology, 2017, 220, 2554-2562.	0.8	10
31	Humeral loads during swimming and walking in turtles: implications for morphological change during aquatic reinvasions. Journal of Experimental Biology, 2017, 220, 3873-3877.	0.8	15
32	A novel, bounding gait in swimming turtles: implications for aquatic locomotor diversity. Journal of Experimental Biology, 2017, 220, 3611-3615.	0.8	4
33	Data Management Rubric for Video Data in Organismal Biology. Integrative and Comparative Biology, 2017, 57, 33-47.	0.9	35
34	Tail use improves performance on soft substrates in models of early vertebrate land locomotors. Science, 2016, 353, 154-158.	6.0	78
35	Flowing water affects fish fast-starts: escape performance of the Hawaiian stream goby, Sicyopterus stimpsoni. Journal of Experimental Biology, 2016, 219, 3100-3105.	0.8	12
36	"On the Fence―versus "All in― Insights from Turtles for the Evolution of Aquatic Locomotor Specializations and Habitat Transitions in Tetrapod Vertebrates. Integrative and Comparative Biology, 2016, 56, 1310-1322.	0.9	20

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37	Pelvic girdle mobility of cryptodire and pleurodire turtles during walking and swimming. Journal of Experimental Biology, 2016, 219, 2650-8.	0.8	22
38	In vivo strains in the femur of the nineâ€banded armadillo (<scp><i>D</i></scp> <i>asypus) Tj ETQq0 0 0 rgBT /O</i>	verlock 10) Tf 50 702 1
39	Bone strain magnitude is correlated with bone strain rate in tetrapods: implications for models of mechanotransduction. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150321.	1.2	13
40	Comparative limb bone loading in the humerus and femur of the tiger salamander <i>Ambystoma tigrinum</i> : testing the â€mixed-chain' hypothesis for skeletal safety factors. Journal of Experimental Biology, 2015, 219, 341-53.	0.8	12
41	Local adaptation despite high gene flow in the waterfallâ€climbing Hawaiian goby, <i>Sicyopterus stimpsoni</i> . Molecular Ecology, 2015, 24, 545-563.	2.0	42
42	Limb bone loading in swimming turtles: changes in loading facilitate transitions from tubular to flipper-shaped limbs during aquatic invasions. Biology Letters, 2015, 11, 20150110.	1.0	24
43	Terrestrial LocomotionWhere Do We Stand, Where Are We Going? An Introduction to the Symposium. Integrative and Comparative Biology, 2014, 54, 1051-1057.	0.9	6
44	Diversity of Limb-Bone Safety Factors for Locomotion in Terrestrial Vertebrates: Evolution and Mixed Chains. Integrative and Comparative Biology, 2014, 54, 1058-1071.	0.9	40
45	Feeding performance of the Hawaiian sleeper, <i>Eleotris sandwicensis < /i> (Gobioidei: Eleotridae): correlations between predatory functional modulation and selection pressures on prey. Biological Journal of the Linnean Society, 2014, 111, 359-374.</i>	0.7	15
46	Forelimb kinematics during swimming in the pig-nosed turtle, <i>Carettochelys insculpta </i> , compared with other turtle taxa: rowing versus flapping, convergence versus intermediacy. Journal of Experimental Biology, 2013, 216, 668-80.	0.8	26
47	Differences in locomotor behavior correspond to different patterns of morphological selection in two species of waterfall-climbing gobiid fishes. Evolutionary Ecology, 2013, 27, 949-969.	0.5	18
48	Correlation of muscle function and bone strain in the hindlimb of the river cooter turtle (<i>Pseudemys concinna</i>). Journal of Morphology, 2013, 274, 1060-1069.	0.6	11
49	Vertebrate Land Invasions-Past, Present, and Future: An Introduction to the Symposium. Integrative and Comparative Biology, 2013, 53, 192-196.	0.9	48
50	Propulsive Forces of Mudskipper Fins and Salamander Limbs during Terrestrial Locomotion: Implications for the Invasion of Land. Integrative and Comparative Biology, 2013, 53, 283-294.	0.9	88
51	Musculoskeletal determinants of pelvic sucker function in hawaiian stream gobiid fishes: Interspecific comparisons and allometric scaling. Journal of Morphology, 2013, 274, 733-742.	0.6	19
52	Forelimb muscle function in pig-nosed turtles, <i>Carettochelys insculpta </i> : testing neuromotor conservation between rowing and flapping in swimming turtles. Biology Letters, 2013, 9, 20130471.	1.0	7
53	Evolutionary Novelty versus Exaptation: Oral Kinematics in Feeding versus Climbing in the Waterfall-Climbing Hawaiian Goby Sicyopterus stimpsoni. PLoS ONE, 2013, 8, e53274.	1.1	22
54	Stairway to Heaven: Evaluating Levels of Biological Organization Correlated with the Successful Ascent of Natural Waterfalls in the Hawaiian Stream Goby Sicyopterus stimpsoni. PLoS ONE, 2013, 8, e84851.	1.1	19

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55	Performance and scaling of a novel locomotor structure: adhesive capacity of climbing gobiid fishes. Journal of Experimental Biology, 2012, 215, 3925-3936.	0.8	62
56	Finding paradise: cues directing the migration of the waterfall climbing Hawaiian gobioid <i>Sicyopterus stimpsoni</i>). Journal of Fish Biology, 2012, 81, 903-920.	0.7	14
57	Locomotor loading mechanics in the hindlimbs of tegu lizards (<i>Tupinambis merianae</i>): comparative and evolutionary implications. Journal of Experimental Biology, 2011, 214, 2616-2630.	0.8	25
58	Jaw muscle fiber type distribution in Hawaiian gobioid stream fishes: histochemical correlations with feeding ecology and behavior. Zoology, 2011, 114, 340-347.	0.6	10
59	Loading mechanics of the femur in tiger salamanders (<i>Ambystoma tigrinum</i>) during terrestrial locomotion. Journal of Experimental Biology, 2011, 214, 2603-2615.	0.8	17
60	<i>In vivo</i> strains in the femur of the Virginia opossum (<i>Didelphis virginiana</i>) during terrestrial locomotion: testing hypotheses of evolutionary shifts in mammalian bone loading and design. Journal of Experimental Biology, 2011, 214, 2631-2640.	0.8	18
61	Femoral loading mechanics in the Virginia opossum, <i>Didelphis virginiana </i> : torsion and mediolateral bending in mammalian locomotion. Journal of Experimental Biology, 2011, 214, 3455-3466.	0.8	14
62	Hydrodynamic stability of the painted turtle (Chrysemys picta): effects of four-limbed rowing versus forelimb flapping in rigid-bodied tetrapods. Journal of Experimental Biology, 2011, 214, 1153-1162.	0.8	14
63	Forelimb kinematics and motor patterns of swimming loggerhead sea turtles (<i>Caretta caretta</i>): are motor patterns conserved in the evolution of new locomotor strategies?. Journal of Experimental Biology, 2011, 214, 3314-3323.	0.8	39
64	Motor patterns of distal hind limb muscles in walking turtles: Implications for models of limb bone loading. Journal of Morphology, 2010, 271, 1527-1536.	0.6	8
65	Hydrodynamic stability in posthatchling loggerhead (Caretta caretta) and green (Chelonia mydas) sea turtles. Zoology, 2010, 113, 158-167.	0.6	12
66	Morphological Selection and the Evaluation of Potential Tradeoffs Between Escape from Predators and the Climbing of Waterfalls in the Hawaiian Stream Goby Sicyopterus stimpsoni. Integrative and Comparative Biology, 2010, 50, 1185-1199.	0.9	61
67	Forelimb kinematics and motor patterns of the slider turtle (<i>Trachemys scripta</i>) during swimming and walking: shared and novel strategies for meeting locomotor demands of water and land. Journal of Experimental Biology, 2010, 213, 3515-3526.	0.8	28
68	Comparative morphology of the ilium of anurans and urodeles (Lissamphibia) and a re-assessment of the anuran affinities of <i>Nezpercius dodsoni </i> Blob et al., 2001. Journal of Vertebrate Paleontology, 2010, 30, 1684-1696.	0.4	28
69	Morphological selection in an extreme flow environment: body shape and waterfall-climbing success in the Hawaiian stream fish Sicyopterus stimpsoni. Integrative and Comparative Biology, 2009, 49, 732-734.	0.9	3
70	Feeding kinematics and performance of Hawaiian stream gobies, <i>Awaous guamensis</i> and <i>Lentipes concolor</i> : Linkage of functional morphology and ecology. Journal of Morphology, 2009, 270, 344-356.	0.6	9
71	Jaw lever analysis of Hawaiian gobioid stream fishes: A simulation study of morphological diversity and functional performance. Journal of Morphology, 2009, 270, 976-983.	0.6	13
72	Mechanical Properties of the Hindlimb Bones of Bullfrogs and Cane Toads in Bending and Torsion. Anatomical Record, 2009, 292, 935-944.	0.8	19

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73	A Phylogenetic Analysis of Sexual Size Dimorphism in Turtles. Herpetologica, 2009, 65, 70-81.	0.2	25
74	Muscle fiber type distribution in climbing Hawaiian gobioid fishes: Ontogeny and correlations with locomotor performance. Zoology, 2008, 111, 114-122.	0.6	21
75	Antler stiffness in caribou (Rangifer tarandus): Testing variation in bone material properties between males and females. Zoology, 2008, 111, 476-482.	0.6	6
76	Mechanics of limb bone loading during terrestrial locomotion in river cooter turtles (<i>Pseudemys) Tj ETQq0 0</i>	0 rgBT /Ov	erlock 10 Tf 5
77	<i>In vivo</i> strains in the femur of river cooter turtles(<i>Pseudemys concinna</i>) during terrestrial locomotion: tests of force-platform models of loading mechanics. Journal of Experimental Biology, 2008, 211, 2397-2407.	0.8	46
78	Going with the flow: ecomorphological variation across aquatic flow regimes: an introduction to the symposium. Integrative and Comparative Biology, 2008, 48, 699-701.	0.9	7
79	Morphological selection in an extreme flow environment: body shape and waterfall-climbing success in the Hawaiian stream fish Sicyopterus stimpsoni. Integrative and Comparative Biology, 2008, 48, 734-749.	0.9	54
80	Mechanics of limb bone loading during terrestrial locomotion in river cooter turtles (Pseudemys) Tj ETQq0 0 0 rg	gBT/Qverlo	ock ₅ 10 Tf 50 4
81	Ontogenetic Scaling of Body Proportions In Waterfall-climbing Gobiid Fishes from Hawai'i and Dominica: Implications for Locomotor Function. Copeia, 2007, 2007, 755-764.	1.4	34
82	Ontogenetic change in novel functions: waterfall climbing in adult Hawaiian gobiid fishes. Journal of Zoology, 2007, 273, 200-209.	0.8	41
83	Functional diversity in extreme environments: effects of locomotor style and substrate texture on the waterfall-climbing performance of Hawaiian gobiid fishes. Journal of Zoology, 2006, 268, 315-324.	0.8	78
84	Antler stiffness in moose (Alces alces): Correlated evolution of bone function and material properties?. Journal of Morphology, 2006, 267, 1075-1086.	0.6	28
85	Aquatic turning performance of painted turtles (Chrysemys picta) and functional consequences of a rigid body design. Journal of Experimental Biology, 2006, 209, 4203-4213.	0.8	61
86	The survival of Sicyopterus stimpsoni, an endemic amphidromous Hawaiian gobiid fish, relies on the hydrological cycles of streams: evidence from changes in algal composition of diet through growth stages fish. Aquatic Ecology, 2005, 39, 473-484.	0.7	26
87	Hindlimb function in the alligator: integrating movements, motor patterns, ground reaction forces and bone strain of terrestrial locomotion. Journal of Experimental Biology, 2005, 208, 993-1009.	0.8	47
88	Tail Kinematics of Juvenile Common Snapping Turtles during Aquatic Walking. Journal of Herpetology, 2004, 38, 360-369.	0.2	13
89	Tracheal Respiration in Insects Visualized with Synchrotron X-ray Imaging. Science, 2003, 299, 558-560.	6.0	212
90	Kinematics of waterfall climbing in Hawaiian freshwater fishes (Gobiidae): vertical propulsion at the aquatic–terrestrial interface. Journal of Zoology, 2003, 261, 191-205.	0.8	99

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91	Motor control of locomotor hindlimb posture in the American alligator (Alligator mississippiensis). Journal of Experimental Biology, 2003, 206, 4327-4340.	0.8	49
92	A new fossil frog from the Upper Cretaceous Judith River Formation of Montana. Journal of Vertebrate Paleontology, 2001, 21, 190-194.	0.4	9
93	Evolution of hindlimb posture in nonmammalian therapsids: biomechanical tests of paleontological hypotheses. Paleobiology, 2001, 27, 14-38.	1.3	91
94	Correlates of variation in deer antler stiffness: age, mineral content, intra-antler location, habitat, and phylogeny. Biological Journal of the Linnean Society, 2001, 74, 113-120.	0.7	25
95	How muscles accommodate movement in different physical environments: aquatic vs. terrestrial locomotion in vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Description of the Integrative Physiology, 2001, 131, 61-75.	0.8	82
96	Correlates of variation in deer antler stiffness: age, mineral content, intra-antler location, habitat, and phylogeny. Biological Journal of the Linnean Society, 2001, 74, 113-120.	0.7	1
97	Comparative kinematics of the forelimb during swimming in red-eared slider (<i>Trachemys) Tj ETQq1 1 0.78431-2001, 204, 3261-3271.</i>	4 rgBT /O\ 0.8	verlock 10 Tf 59
98	Mechanics of limb bone loading during terrestrial locomotion in the green iguana (Iguana iguana) and American alligator (Alligator mississippiensis). Journal of Experimental Biology, 2001, 204, 1099-122.	0.8	74
99	Comparative kinematics of the forelimb during swimming in red-eared slider (Trachemys scripta) and spiny softshell (Apalone spinifera) turtles. Journal of Experimental Biology, 2001, 204, 3261-71.	0.8	42
100	Interspecific scaling of the hindlimb skeleton in lizards, crocodilians, felids and canids: does limb bone shape correlate with limb posture?. Journal of Zoology, 2000, 250, 507-531.	0.8	65
101	Evaluation of Vent Position from Lizard Skeletons for Estimation of Snout: Vent Length and Body Mass. Copeia, 1998, 1998, 792.	1.4	12
102	The significance of vertebrate microfossil size and shape distributions for faunal abundance reconstructions: a Late Cretaceous example. Paleobiology, 1996, 22, 422-435.	1.3	47