

Adam P Summers

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8105597/adam-p-summers-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128 papers	3,188 citations	33 h-index	49 g-index
187 ext. papers	3,861 ext. citations	6.3 avg, IF	5.51 L-index

#	Paper	IF	Citations
128	SegmentGeometry: A Tool for Measuring Second Moment of Area in 3D Slicer.. <i>Integrative Organismal Biology</i> , 2022 , 4, obac009	2.3	1
127	Arrested in Glass: Actin within Sophisticated Architectures of Biosilica in Sponges.. <i>Advanced Science</i> , 2022 , e2105059	13.6	3
126	The moment of tooth: rate, fate and pattern of Pacific lingcod dentition revealed by pulse-chase. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211436	4.4	1
125	Habitat influences skeletal morphology and density in the snailfishes (family Liparidae). <i>Frontiers in Zoology</i> , 2021 , 18, 16	2.8	1
124	Foretelling the Flex-Vertebral Shape Predicts Behavior and Ecology of Fishes. <i>Integrative and Comparative Biology</i> , 2021 , 61, 414-426	2.8	2
123	Shark spiral intestines may operate as Tesla valves. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211359	4.4	2
122	Scale performance and composition in a small Amazonian armored catfish, <i>Corydoras trilineatus</i> . <i>Acta Biomaterialia</i> , 2021 , 121, 359-370	10.8	0
121	SlicerMorph: An open and extensible platform to retrieve, visualize and analyse 3D morphology. <i>Methods in Ecology and Evolution</i> , 2021 , 12, 1816	7.7	2
120	Grand Challenges in Comparative Tooth Biology. <i>Integrative and Comparative Biology</i> , 2020 , 60, 563-580	2.8	2
119	Ontogeny and potential function of poacher armor (Actinopterygii: Agonidae). <i>Journal of Morphology</i> , 2020 , 281, 1018-1028	1.6	2
118	The Natural Historian's Guide to the CT Galaxy: Step-by-Step Instructions for Preparing and Analyzing Computed Tomographic (CT) Data Using Cross-Platform, Open Access Software. <i>Integrative Organismal Biology</i> , 2020 , 2, obaa009	2.3	12
117	Unwind: Interactive Fish Straightening 2020 ,		1
116	Molecular Phylogenetics of the Clingfishes (Teleostei: Gobiesocidae)Implications for Classification. <i>Copeia</i> , 2020 , 108,	1.1	8
115	Swimming and defence: competing needs across ontogeny in armoured fishes (Agonidae). <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200301	4.1	2
114	The Evolutionary Continuum of Functional Homodonty to Heterodonty in the Dentition of Halichoeres Wrasses. <i>Integrative and Comparative Biology</i> , 2020 ,	2.8	5
113	Not your father's homodonty-stress, tooth shape, and the functional homodont. <i>Journal of Anatomy</i> , 2020 , 237, 837-848	2.9	8
112	Structure and Function of the Armored Keel in Piranhas, Pacus, and their Allies. <i>Anatomical Record</i> , 2020 , 303, 30-43	2.1	7

111	Tooth and consequences: Heterodonty and dental replacement in piranhas and pacus (Serrasalminae). <i>Evolution & Development</i> , 2019 , 21, 278-293	2.6	12
110	Learning from Northern clingfish (<i>Gobiesox maeandricus</i>): bioinspired suction cups attach to rough surfaces. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019 , 374, 20190204	5.8	23
109	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. <i>Science Advances</i> , 2019 , 5, eaax2805	14.3	38
108	Functional coupling in the evolution of suction feeding and gill ventilation of sculpins (Perciformes: Cottidae). <i>Integrative and Comparative Biology</i> , 2019 , 59, 394-409	2.8	4
107	Killing them softly: Ontogeny of jaw mechanics and stiffness in mollusk-feeding freshwater stingrays. <i>Journal of Morphology</i> , 2019 , 280, 796-808	1.6	10
106	Have Niche, Will Travel. New Means of Linking Diet and Ecomorphology Reveals Niche Conservatism in Freshwater Cottoid Fishes. <i>Integrative Organismal Biology</i> , 2019 , 1, obz023	2.3	6
105	Body shape separates guilds of rheophilic herbivores (Myleinae: Serrasalminae) better than feeding morphology. <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> , 2019 , 166, 1	1.1	9
104	A new genus and two new species of miniature clingfishes from temperate southern Australia (Teleostei, Gobiesocidae). <i>ZooKeys</i> , 2019 , 864, 35-65	1.2	5
103	Heterochrony in fringeheads (<i>Neoclinus</i>) and amplification of an extraordinary aggressive display in the Sarcastic Fringehead (Teleostei: Blenniiformes). <i>Journal of Morphology</i> , 2018 , 279, 626-635	1.6	7
102	TopoAngler: Interactive Topology-Based Extraction of Fishes. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2018 , 24, 812-821	4	13
101	Specialized specialists and the narrow niche fallacy: a tale of scale-feeding fishes. <i>Royal Society Open Science</i> , 2018 , 5, 171581	3.3	22
100	Mechanical properties of harbor seal skin and blubber - a test of anisotropy. <i>Zoology</i> , 2018 , 126, 137-144	1.7	8
99	2D or Not 2D? Testing the Utility of 2D Vs. 3D Landmark Data in Geometric Morphometrics of the Sculpin Subfamily Oligocottinae (Pisces; Cottoidea). <i>Anatomical Record</i> , 2018 , 301, 806-818	2.1	37
98	Benthic walking, bounding, and maneuvering in flatfishes (Pleuronectiformes: Pleuronectidae): New vertebrate gaits. <i>Zoology</i> , 2018 , 130, 19-29	1.7	8
97	Effects of organism and substrate size on burial mechanics of English sole,. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	1
96	The evolution of underwater flight: The redistribution of pectoral fin rays, in manta rays and their relatives (Myliobatidae). <i>Journal of Morphology</i> , 2018 , 279, 1155-1170	1.6	9
95	A new genus and species of clingfish from the Rangitīua Kermadec Islands of New Zealand (Teleostei, Gobiesocidae). <i>ZooKeys</i> , 2018 , 75-104	1.2	6
94	A new species of sea urchin associating clingfish of the genus from New Zealand (Teleostei, Gobiesocidae). <i>ZooKeys</i> , 2018 , 77-95	1.2	6

93	Assessing Science Training Programs: Structured Undergraduate Research Programs Make a Difference. <i>BioScience</i> , 2018 , 68, 529-534	5.7	31
92	Tooth occlusal morphology in the durophagous marine reptiles, Placodontia (Reptilia: Sauropterygia). <i>Paleobiology</i> , 2017 , 43, 114-128	2.6	7
91	Open data and digital morphology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	73
90	A New Genus and Species of Clingfish (Teleostei: Gobiesocidae) from Western Australia. <i>Copeia</i> , 2017 , 105, 128-140	1.1	10
89	Invertebrate biomechanics. <i>Current Biology</i> , 2017 , 27, R371-R375	6.3	0
88	From smooth to rough, from water to air: the intertidal habitat of Northern clingfish (<i>Gobiesox maeandricus</i>). <i>Die Naturwissenschaften</i> , 2017 , 104, 33	2	10
87	Long-axis twisting during locomotion of elongate fishes. <i>Journal of Experimental Biology</i> , 2017 , 220, 3633-3640	3	6
86	Flaccid skin protects hagfishes from shark bites. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	5
85	Distribution, composition and functions of gelatinous tissues in deep-sea fishes. <i>Royal Society Open Science</i> , 2017 , 4, 171063	3.3	9
84	Modelling tooth-prey interactions in sharks: the importance of dynamic testing. <i>Royal Society Open Science</i> , 2016 , 3, 160141	3.3	25
83	Always chew your food: freshwater stingrays use mastication to process tough insect prey. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	23
82	The comparative hydrodynamics of rapid rotation by predatory appendages. <i>Journal of Experimental Biology</i> , 2016 , 219, 3399-3411	3	21
81	Burrowing behavior, habitat, and functional morphology of the Pacific sand lance (<i>Ammodytes personatus</i>). <i>Fishery Bulletin</i> , 2016 , 114, 445-460	1.4	20
80	Performance of teeth of lingcod, <i>Ophiodon elongatus</i> , over ontogeny. <i>Journal of Experimental Zoology</i> , 2016 , 325, 99-105		12
79	Biomaterials: Sharks shift their spine into high gear. <i>Nature</i> , 2016 , 540, 532-533	50.4	
78	Undulation frequency affects burial performance in living and model flatfishes. <i>Zoology</i> , 2016 , 119, 75-80.	7	8
77	Morphology does not predict performance: jaw curvature and prey crushing in durophagous stingrays. <i>Journal of Experimental Biology</i> , 2015 , 218, 3941-9	3	28
76	Mechanical properties of the hyomandibula in four shark species. <i>Journal of Experimental Zoology</i> , 2015 , 323, 1-9		12

75	Biomechanics: Boxed up and ready to go. <i>Nature</i> , 2015 , 517, 274-5	50.4	6
74	Built for speed: strain in the cartilaginous vertebral columns of sharks. <i>Zoology</i> , 2014 , 117, 19-27	1.7	16
73	Comparison of the structure and composition of the branchial filters in suspension feeding elasmobranchs. <i>Anatomical Record</i> , 2014 , 297, 701-15	2.1	33
72	How to best smash a snail: the effect of tooth shape on crushing load. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20131053	4.1	43
71	Stress relaxation behavior of tessellated cartilage from the jaws of blue sharks. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 68-80	4.1	19
70	Aquatic versus terrestrial attachment: Water makes a difference. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 2424-39	3	38
69	Attachment to challenging substrates--fouling, roughness and limits of adhesion in the northern clingfish (<i>Gobiesox maeandricus</i>). <i>Journal of Experimental Biology</i> , 2014 , 217, 2548-54	3	57
68	Spatial segregation in eastern North Pacific skate assemblages. <i>PLoS ONE</i> , 2014 , 9, e109907	3.7	16
67	The filter pads and filtration mechanisms of the devil rays: Variation at macro and microscopic scales. <i>Journal of Morphology</i> , 2013 , 274, 1026-43	1.6	57
66	Stick tight: suction adhesion on irregular surfaces in the northern clingfish. <i>Biology Letters</i> , 2013 , 9, 20130834	3.4	89
65	Flexural stiffness and composition of the batoid propterygium as predictors of punting ability. <i>Journal of Experimental Biology</i> , 2012 , 215, 2003-12	3	27
64	Very low pressures drive ventilatory flow in chimaeroid fishes. <i>Journal of Morphology</i> , 2012 , 273, 461-79	1.6	5
63	Ontogenetic scaling of the morphology and biomechanics of the feeding apparatus in the Pacific hagfish <i>Eptatretus stoutii</i> . <i>Journal of Fish Biology</i> , 2012 , 80, 86-99	1.9	14
62	Is solid always best? Cranial performance in solid and fenestrated caecilian skulls. <i>Journal of Experimental Biology</i> , 2012 , 215, 833-44	3	19
61	Calcite Reinforced Silica-Bilica Joints in the Biocomposite Skeleton of Deep-Sea Glass Sponges. <i>Advanced Functional Materials</i> , 2011 , 21, 3473-3481	15.6	34
60	Bottles as models: predicting the effects of varying swimming speed and morphology on size selectivity and filtering efficiency in fishes. <i>Journal of Experimental Biology</i> , 2011 , 214, 1643-54	3	31
59	Inspired by Sharks: A Biomimetic Skeleton for the Flapping, Propulsive Tail of an Aquatic Robot. <i>Marine Technology Society Journal</i> , 2011 , 45, 119-129	0.5	16
58	A force-speed trade-off is not absolute. <i>Biology Letters</i> , 2011 , 7, 880-881	3.6	8

57	Locomotory transition from water to sand and its effects on undulatory kinematics in sand lances (Ammodytidae). <i>Journal of Experimental Biology</i> , 2011 , 214, 657-64	3	21
56	Comparison of chela size and pincer force in scorpions; getting a first grip. <i>Journal of Zoology</i> , 2010 , 280, 319-325	2	29
55	Pairwise modulation of jaw muscle activity in two species of elasmobranchs. <i>Journal of Zoology</i> , 2010 , 281, no-no	2	11
54	Canaliculi in the tessellated skeleton of cartilaginous fishes. <i>Journal of Applied Ichthyology</i> , 2010 , 26, 263-267	0.9	22
53	Frontiers in aquatic physiology - grand challenge. <i>Frontiers in Physiology</i> , 2010 , 1, 6	4.6	1
52	Linkage mechanics and power amplification of the mantis shrimp's strike. <i>Journal of Experimental Biology</i> , 2010 , 213, 3941-3941	3	3
51	Composite model of the shark's skeleton in bending: A novel architecture for biomimetic design of functional compression bias. <i>Materials Science and Engineering C</i> , 2010 , 30, 1077-1084	8.3	27
50	A soft origin for a forceful bite: motor patterns of the feeding musculature in Atlantic hagfish, <i>Myxine glutinosa</i> . <i>Zoology</i> , 2010 , 113, 259-68	1.7	10
49	Biomaterials: Properties, variation and evolution. <i>Integrative and Comparative Biology</i> , 2009 , 49, 15-20	2.8	13
48	The material properties of acellular bone in a teleost fish. <i>Journal of Experimental Biology</i> , 2009 , 212, 1413-20	3	52
47	Response of the hammerhead shark olfactory epithelium to amino acid stimuli. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009 , 195, 947-54	2.3	40
46	Gorb et al. reply. <i>Nature</i> , 2009 , 461, E9-E10	50.4	5
45	Whole-body lift and ground effect during pectoral fin locomotion in the northern spearnose poacher (<i>Agonopsis vulsa</i>). <i>Zoology</i> , 2009 , 112, 393-402	1.7	24
44	Ontogeny of the tessellated skeleton: insight from the skeletal growth of the round stingray <i>Urobatis halleri</i> . <i>Journal of Anatomy</i> , 2009 , 215, 227-39	2.9	58
43	Three-dimensional computer analysis of white shark jaw mechanics: how hard can a great white bite?. <i>Journal of Zoology</i> , 2008 , 276, 336-342	2	91
42	Hard prey, soft jaws and the ontogeny of feeding mechanics in the spotted ratfish <i>Hydrolagus coliei</i> . <i>Journal of the Royal Society Interface</i> , 2008 , 5, 941-52	4.1	42
41	Caecilian jaw-closing mechanics: integrating two muscle systems. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 1491-504	4.1	21
40	Applying x-ray tomography in the field of vertebrate biology: form, function, and evolution of the skull of caecilians (Lissamphibia: Gymnophiona) 2008 ,	7	

39	A cryoSEM Method for Preservation and Visualization of Calcified Shark Cartilage (And Other Stubborn Heterogeneous Skeletal Tissues). <i>Microscopy Today</i> , 2008 , 16, 48-51	0.4	14
38	Functional morphology of the feeding apparatus, feeding constraints, and suction performance in the nurse shark <i>Ginglymostoma cirratum</i> . <i>Journal of Morphology</i> , 2008 , 269, 1041-55	1.6	37
37	Uniform strain in broad muscles: active and passive effects of the twisted tendon of the spotted ratfish <i>Hydrolagus coliei</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 3395-406	3	18
36	Linkage mechanics and power amplification of the mantis shrimp's strike. <i>Journal of Experimental Biology</i> , 2007 , 210, 3677-88	3	99
35	Morphology and kinematics of feeding in hagfish: possible functional advantages of jaws. <i>Journal of Experimental Biology</i> , 2007 , 210, 3897-909	3	28
34	The evolution of cranial design, diet, and feeding mechanisms in batoid fishes. <i>Integrative and Comparative Biology</i> , 2007 , 47, 70-81	2.8	56
33	The contribution of mineral to the material properties of vertebral cartilage from the smooth-hound shark <i>Mustelus californicus</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 3319-27	3	26
32	Material properties and biochemical composition of mineralized vertebral cartilage in seven elasmobranch species (Chondrichthyes). <i>Journal of Experimental Biology</i> , 2006 , 209, 2920-8	3	58
31	SPIDER DRAGLINE SILK: CORRELATED AND MOSAIC EVOLUTION IN HIGH-PERFORMANCE BIOLOGICAL MATERIALS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2539-2551	3.8	71
30	Biomaterials: silk-like secretion from tarantula feet. <i>Nature</i> , 2006 , 443, 407	50.4	50
29	Mineralized cartilage in the skeleton of chondrichthyan fishes. <i>Zoology</i> , 2006 , 109, 164-8	1.7	117
28	SPIDER DRAGLINE SILK: CORRELATED AND MOSAIC EVOLUTION IN HIGH-PERFORMANCE BIOLOGICAL MATERIALS. <i>Evolution; International Journal of Organic Evolution</i> , 2006 , 60, 2539	3.8	8
27	Skin and Bones, Sinew and Gristle: the Mechanical Behavior of Fish Skeletal Tissues. <i>Fish Physiology</i> , 2005 , 141-177	2	21
26	Eating without hands or tongue: specialization, elaboration and the evolution of prey processing mechanisms in cartilaginous fishes. <i>Biology Letters</i> , 2005 , 1, 357-61	3.6	38
25	The sexually dimorphic cephalofoil of bonnethead sharks, <i>Sphyrna tiburo</i> . <i>Biological Bulletin</i> , 2005 , 209, 1-5	1.5	14
24	Morphology and Ultrastructure of Prismatic Calcified Cartilage. <i>Microscopy and Microanalysis</i> , 2005 , 11,	0.5	9
23	Gumfooted lines in black widow cobwebs and the mechanical properties of spider capture silk. <i>Zoology</i> , 2005 , 108, 41-6	1.7	70
22	The retro-articular process, streptostyly and the caecilian jaw closing system. <i>Zoology</i> , 2005 , 108, 307-15	1.7	16

21	Olfactory morphology of carcharhinid and sphyrnid sharks: does the cephalofoil confer a sensory advantage?. <i>Journal of Morphology</i> , 2005 , 264, 253-63	1.6	38
20	Batoid wing skeletal structure: novel morphologies, mechanical implications, and phylogenetic patterns. <i>Journal of Morphology</i> , 2005 , 264, 298-313	1.6	93
19	Structure and function of the horn shark (<i>Heterodontus francisci</i>) cranium through ontogeny: development of a hard prey specialist. <i>Journal of Morphology</i> , 2004 , 260, 1-12	1.6	67
18	Maneuvering in juvenile carcharhinid and sphyrnid sharks: the role of the hammerhead shark cephalofoil. <i>Zoology</i> , 2003 , 106, 19-28	1.7	55
17	A novel fibrocartilaginous tendon from an elasmobranch fish (<i>Rhinoptera bonasus</i>). <i>Cell and Tissue Research</i> , 2003 , 312, 221-7	4.2	17
16	The evolution of tendon--morphology and material properties. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002 , 133, 1159-70	2.6	52
15	Gait transition speed, pectoral fin-beat frequency and amplitude in <i>Cymatogaster aggregata</i> , <i>Embiotoca lateralis</i> and <i>Damalichthys vacca</i> . <i>Journal of Fish Biology</i> , 2002 , 61, 1282-1293	1.9	21
14	Kinematic Analysis of Suction Feeding in the Nurse Shark, <i>Ginglymostoma cirratum</i> (Orectolobiformes, Ginglymostomatidae). <i>Copeia</i> , 2002 , 2002, 24-38	1.1	65
13	Clarification Regarding the Holotype of <i>Caecilia volcani</i> (Amphibia: Gymnophiona). <i>Copeia</i> , 2001 , 2001, 561-562	1.1	
12	Spadefoot Toads (<i>Scaphiopus holbrookii holbrookii</i>) in an Urban Landscape: Effects of Nonnatural Substrates on Burrowing in Adults and Juveniles. <i>Journal of Herpetology</i> , 2001 , 35, 141	1.1	13
11	Ventilatory modes and mechanics of the hedgehog skate (<i>Leucoraja erinacea</i>): testing the continuous flow model. <i>Journal of Experimental Biology</i> , 2001 , 204, 1577-87	3	15
10	Stiffening the stingray skeleton - an investigation of durophagy in myliobatid stingrays (Chondrichthyes, batoidea, myliobatidae). <i>Journal of Morphology</i> , 2000 , 243, 113-26	1.6	121
9	The Evolution of the Functional Role of Trunk Muscles During Locomotion in Adult Amphibians1. <i>American Zoologist</i> , 2000 , 40, 123-135		12
8	The Evolution of the Functional Role of Trunk Muscles During Locomotion in Adult Amphibians. <i>American Zoologist</i> , 2000 , 40, 123-135		24
7	INTEGRATION OF VERSATILE FUNCTIONAL DESIGN, POPULATION ECOLOGY, ONTOGENY AND PHYLOGENY. <i>Animal Biology</i> , 2000 , 50, 245-259		14
6	Confirmation of the Passive Exhalation Hypothesis for a Terrestrial Caecilian, <i>Dermophis mexicanus</i> . <i>Copeia</i> , 1999 , 1999, 206	1.1	7
5	Metabolic rate of embryonic little skate, <i>Raja erinacea</i> (Chondrichthyes: Batoidea): The cost of active pumping. <i>The Journal of Experimental Zoology</i> , 1999 , 283, 13-18		27
4	Stingray jaws strut their stuff. <i>Nature</i> , 1998 , 395, 450-451	50.4	32

3	Kinematics of aquatic and terrestrial prey capture in <i>Terrapene carolina</i> , with implications for the evolution of feeding in cryptodire turtles. <i>The Journal of Experimental Zoology</i> , 1998 , 281, 280-7		55
2	A comparative study of locomotion in the caecilians <i>Dermophis mexicanus</i> and <i>Typhlonectes natans</i> (Amphibia: Gymnophiona). <i>Zoological Journal of the Linnean Society</i> , 1997 , 121, 65-76	2.4	33
1	Bio-inspired geotechnical engineering: principles, current work, opportunities and challenges. <i>Geotechnique</i> , 1-19	3.4	11