## Douglas Fudge

List of Publications by Year in descending order

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DOLICIAS FUDGE

#	Article	IF	CITATIONS
1	Migratory Movements, Depth Preferences, and Thermal Biology of Atlantic Bluefin Tuna. Science, 2001, 293, 1310-1314.	6.0	556
2	The Mechanical Properties of Hydrated Intermediate Filaments: Insights from Hagfish Slime Threads. Biophysical Journal, 2003, 85, 2015-2027.	0.2	228
3	Biomechanical properties of intermediate filaments: from tissues to single filaments and back. BioEssays, 2007, 29, 26-35.	1.2	105
4	Composition, morphology and mechanics of hagfish slime. Journal of Experimental Biology, 2005, 208, 4613-4625.	0.8	95
5	Molecular design of the α–keratin composite: insights from a matrix–free model, hagfish slime threads. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 291-299.	1.2	94
6	Calcification provides mechanical reinforcement to whale baleen α-keratin. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2597-2605.	1.2	63
7	A Fish Out of Water: Gill and Skin Remodeling Promotes Osmo- and Ionoregulation in the Mangrove Killifish <i>Kryptolebias marmoratus</i> . Physiological and Biochemical Zoology, 2010, 83, 932-949.	0.6	62
8	Hagfish slime ecomechanics: testing the gill-clogging hypothesis. Journal of Experimental Biology, 2006, 209, 702-710.	0.8	61
9	The Intermediate Filament Network in Cultured Human Keratinocytes Is Remarkably Extensible and Resilient. PLoS ONE, 2008, 3, e2327.	1.1	54
10	Intermediate Filaments Regulate Tissue Size and Stiffness in the Murine Lens. , 2011, 52, 3860.		48
11	Morphology and Development of Blue Whale Baleen: An Annotated Translation of Tycho Tullberg's Classic 1883 Paper. Aquatic Mammals, 2009, 35, 226-252.	0.4	47
12	Hagfish slime threads as a biomimetic model for high performance protein fibres. Bioinspiration and Biomimetics, 2010, 5, 035002.	1.5	45
13	Non-linear viscoelasticity of hagfish slime. International Journal of Non-Linear Mechanics, 2011, 46, 627-636.	1.4	44
14	Deployment of hagfish slime thread skeins requires the transmission of mixing forces <i>via</i> mucin strands. Journal of Experimental Biology, 2010, 213, 1235-1240.	0.8	40
15	From ultra-soft slime to hard Â-keratins: The many lives of intermediate filaments. Integrative and Comparative Biology, 2009, 49, 32-39.	0.9	38
16	Self-Assembly Enhances the Strength of Fibers Made from Vimentin Intermediate Filament Proteins. Biomacromolecules, 2014, 15, 574-581.	2.6	38
17	Coiling and maturation of a high-performance fibre in hagfish slime gland thread cells. Nature Communications, 2014, 5, 3534.	5.8	37
18	Stabilization and swelling of hagfish slime mucin vesicles. Journal of Experimental Biology, 2010, 213, 1092-1099.	0.8	36

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19	The Production of Fibers and Films from Solubilized Hagfish Slime Thread Proteins. Biomacromolecules, 2012, 13, 3475-3482.	2.6	35
20	Physiology, Biomechanics, and Biomimetics of Hagfish Slime. Annual Review of Biochemistry, 2015, 84, 947-967.	5.0	26
21	The Mechanical Behavior of Mutant K14-R125P Keratin Bundles and Networks in NEB-1 Keratinocytes. PLoS ONE, 2012, 7, e31320.	1.1	26
22	Skeletal stiffening in an amphibious fish out of water is a response to increased body weight. Journal of Experimental Biology, 2017, 220, 3621-3631.	0.8	25
23	Identification of Wet-Spinning and Post-Spin Stretching Methods Amenable to Recombinant Spider Aciniform Silk. Biomacromolecules, 2016, 17, 2737-2746.	2.6	23
24	Fast-start muscle dynamics in the rainbow trout Oncorhynchus mykiss: phase relationship of white muscle shortening and body curvature. Journal of Experimental Biology, 2005, 208, 929-938.	0.8	22
25	Regulation of hard α-keratin mechanics via control of intermediate filament hydration: matrix squeeze revisited. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122158.	1.2	22
26	Defensive slime formation in Pacific hagfish requires Ca2+ and aquaporin mediated swelling of released mucin vesicles. Journal of Experimental Biology, 2014, 217, 2288-96.	0.8	22
27	Confocal imaging and phylogenetic considerations of the subcutaneous neurons in the Atlantic hagfish <i>Myxine glutinosa</i> . Acta Zoologica, 2015, 96, 209-217.	0.6	22
28	Spontaneous unraveling of hagfish slime thread skeins is mediated by a seawater-soluble protein adhesive. Journal of Experimental Biology, 2014, 217, 1263-1268.	0.8	17
29	The Hagfish Gland Thread Cell: A Fiber-Producing Cell Involved in Predator Defense. Cells, 2016, 5, 25.	1.8	14
30	Morphological analysis of the hagfish heart. I. The ventricle, the arterial connection and the ventral aorta. Journal of Morphology, 2016, 277, 326-340.	0.6	14
31	Concentration-independent mechanics and structure of hagfish slime. Acta Biomaterialia, 2018, 79, 123-134.	4.1	13
32	Fifty years of J. R. Platt's strong inference. Journal of Experimental Biology, 2014, 217, 1202-1204.	0.8	12
33	Comparative Animal Mucomics: Inspiration for Functional Materials from Ubiquitous and Understudied Biopolymers. ACS Biomaterials Science and Engineering, 2020, 6, 5377-5398.	2.6	12
34	Morphological analysis of the hagfish heart. II. The venous pole and the pericardium. Journal of Morphology, 2016, 277, 853-865.	0.6	10
35	Flaccid skin protects hagfishes from shark bites. Journal of the Royal Society Interface, 2017, 14, 20170765.	1.5	10
36	A test of biochemical symmorphosis in a heterothermic tissue: bluefin tuna white muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R108-R114.	0.9	9

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37	Eco-mechanics of lamellar autotomy in larval damselflies. Journal of Experimental Biology, 2014, 217, 185-191.	0.8	9
38	Cellular mechanisms of slime gland refilling in Pacific hagfish ( <i>Eptatretus stoutii</i> ). Journal of Experimental Biology, 2018, 221, .	0.8	9
39	Concentration effects of three common fish anesthetics on Pacific hagfish (Eptatretus stoutii). Fish Physiology and Biochemistry, 2020, 46, 931-943.	0.9	8
40	Enzyme adaptation along a heterothermic tissue: the visceral retia mirabilia of the bluefin tuna. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 272, R1834-R1840.	0.9	7
41	Giant axonal neuropathy alters the structure of keratin intermediate filaments in human hair. Journal of the Royal Society Interface, 2017, 14, 20170123.	1.5	7
42	The effects of actomyosin disruptors on the mechanical integrity of the avian crystalline lens. Molecular Vision, 2015, 21, 98-109.	1.1	7
43	Unraveling inter-species differences in hagfish slime skein deployment. Journal of Experimental Biology, 2018, 221, .	0.8	6
44	High concentrations of trimethylamines in slime glands inhibit skein unraveling in Pacific hagfish. Journal of Experimental Biology, 2019, 222, .	0.8	6
45	Hagfish Houdinis: biomechanics and behavior of squeezing through small openings. Journal of Experimental Biology, 2017, 220, 822-827.	0.8	5
46	Emptying and refilling of slime glands in Atlantic ( <i>Myxine glutinosa</i> ) and Pacific ( <i>Eptatretus) Tj ETQq0 (</i>	0 0 rgBT /( 0 <b>.8</b>	Overlock 10 T
47	Review of the hagfishes (Myxinidae) from the Galapagos Islands, with descriptions of four new species and their phylogenetic relationships. Zoological Journal of the Linnean Society, 2021, 192, 453-474.	1.0	5
48	Physiology of Swimming and Migration in Tunas. , 2013, , 45-78.		3
49	The best predictions in experimental biology are critical and persuasive. Journal of Experimental Biology, 2020, 223, .	0.8	3
50	A New Model of Hagfish Slime Mucous Vesicle Stabilization and Deployment. Langmuir, 2020, 36, 6681-6689.	1.6	3
51	No evidence for homeoviscous adaptation in a heterothermic tissue: tuna heat exchangers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R818-R823.	0.9	2
52	Functional plasticity in lamellar autotomy by larval damselflies in response to predatory larval dragonfly cues. Evolutionary Ecology, 2019, 33, 257-272.	0.5	2
53	Evolution of a remarkable intracellular polymer and extreme cell allometry in hagfishes. Current Biology, 2021, 31, 5062-5068.e4.	1.8	2
54	From reductionism to synthesis: The case of hagfish slime. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 255, 110610.	0.7	1

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#	Article	IF	CITATIONS
55	Music to his antennae. Journal of Experimental Biology, 2007, 210, 1846-1846.	0.8	0

56 Hagfish Slime and Slime Glands. , 2015, , 272-290.