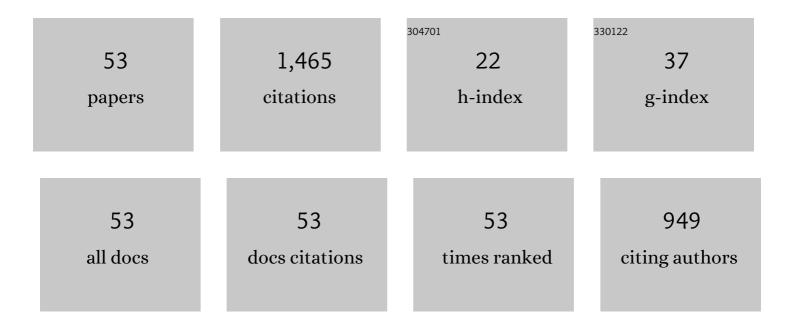
## John H Long Jr

List of Publications by Year in descending order

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| #  | Article                                                                                                                                                                                              | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | The Importance of Body Stiffness in Undulatory Propulsion. American Zoologist, 1996, 36, 678-694.                                                                                                    | 0.7 | 183       |
| 2  | Muscles, Elastic Energy, and the Dynamics of Body Stiffness in Swimming Eels. American Zoologist,<br>1998, 38, 771-792.                                                                              | 0.7 | 119       |
| 3  | Four flippers or two? Tetrapodal swimming with an aquatic robot. Bioinspiration and Biomimetics, 2006, 1, 20-29.                                                                                     | 2.9 | 96        |
| 4  | Stiffness and Damping Forces in the Intervertebral Joints of Blue Marlin ( <i>Makaira Nigricans</i> ).<br>Journal of Experimental Biology, 1992, 162, 131-155.                                       | 1.7 | 80        |
| 5  | Morphology, mechanics, and locomotion: the relation between the notochord and swimming motions in sturgeon. Environmental Biology of Fishes, 1995, 44, 199-211.                                      | 1.0 | 78        |
| 6  | EVOLUTION OF BEHAVIOR AND NEURAL CONTROL OF THE FAST-START ESCAPE RESPONSE. Evolution;<br>International Journal of Organic Evolution, 2002, 56, 993-1007.                                            | 2.3 | 78        |
| 7  | Biomimetic evolutionary analysis: testing the adaptive value of vertebrate tail stiffness in autonomous swimming robots. Journal of Experimental Biology, 2006, 209, 4732-4746.                      | 1.7 | 76        |
| 8  | Force transmission via axial tendons in undulating fish: a dynamic analysis. Comparative Biochemistry<br>and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 911-929.              | 1.8 | 68        |
| 9  | The notochord of hagfish <i>Myxine glutinosa</i> : visco-elastic properties and mechanical functions during steady swimming. Journal of Experimental Biology, 2002, 205, 3819-3831.                  | 1.7 | 60        |
| 10 | Fish out of water: terrestrial jumping by fully aquatic fishes. Journal of Experimental Zoology, 2011,<br>315A, 649-653.                                                                             | 1.2 | 46        |
| 11 | Scaling of swimming performance in baleen whales. Journal of Experimental Biology, 2019, 222, .                                                                                                      | 1.7 | 45        |
| 12 | Turning maneuvers in sharks: Predicting body curvature from axial morphology. Journal of<br>Morphology, 2009, 270, 954-965.                                                                          | 1.2 | 44        |
| 13 | Backbone Mechanics of the Blue Marlin <i>Makaira Nigricans</i> (Pisces, Istiophoridae). Journal of<br>Experimental Biology, 1990, 148, 449-459.                                                      | 1.7 | 44        |
| 14 | Testing Biomimetic Structures in Bioinspired Robots: How Vertebrae Control the Stiffness of the Body and the Behavior of Fish-Like Swimmers. Integrative and Comparative Biology, 2011, 51, 158-175. | 2.0 | 40        |
| 15 | The notochord of hagfish Myxine glutinosa: visco-elastic properties and mechanical functions during steady swimming. Journal of Experimental Biology, 2002, 205, 3819-31.                            | 1.7 | 39        |
| 16 | Go Reconfigure: How Fish Change Shape as They Swim and Evolve. Integrative and Comparative Biology, 2010, 50, 1120-1139.                                                                             | 2.0 | 29        |
| 17 | Skin and Bones, Sinew and Gristle: the Mechanical Behavior of Fish Skeletal Tissues. Fish Physiology, 2005, , 141-177.                                                                               | 0.8 | 27        |
| 18 | Jumping sans legs: does elastic energy storage by the vertebral column power terrestrial jumps in bony fishes?. Zoology, 2014, 117, 7-18.                                                            | 1.2 | 25        |

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| #  | Article                                                                                                                                                                                            | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A Navigational Primitive: Biorobotic Implementation of Cycloptic Helical Klinotaxis in Planar Motion.<br>IEEE Journal of Oceanic Engineering, 2004, 29, 795-806.                                   | 3.8 | 24        |
| 20 | Built for speed: strain in the cartilaginous vertebral columns of sharks. Zoology, 2014, 117, 19-27.                                                                                               | 1.2 | 24        |
| 21 | Vertebrae in compression: Mechanical behavior of arches and centra in the gray smoothâ€hound shark<br>( <i>Mustelus californicus</i> ). Journal of Morphology, 2010, 271, 366-375.                 | 1.2 | 22        |
| 22 | Automatic control: the vertebral column of dogfish sharks behaves as a continuously variable transmission with smoothly shifting functions. Journal of Experimental Biology, 2016, 219, 2908-2919. | 1.7 | 22        |
| 23 | Swimming fundamentals: turning performance of leopard sharks (Triakis semifasciata) is predicted by body shape and postural reconfiguration. Zoology, 2011, 114, 348-359.                          | 1.2 | 21        |
| 24 | Inspired by Sharks: A Biomimetic Skeleton for the Flapping, Propulsive Tail of an Aquatic Robot. Marine<br>Technology Society Journal, 2011, 45, 119-129.                                          | 0.4 | 20        |
| 25 | Sink and swim: kinematic evidence for lifting-body mechanisms in negatively buoyant electric rays<br><i>Narcine brasiliensis</i> . Journal of Experimental Biology, 2011, 214, 2935-2948.          | 1.7 | 15        |
| 26 | How Movements of a Non-Humanoid Robot Affect Emotional Perceptions and Trust. International Journal of Social Robotics, 2021, 13, 1967-1978.                                                       | 4.6 | 12        |
| 27 | Flapping flexible fish. Experiments in Fluids, 2007, 43, 779-797.                                                                                                                                  | 2.4 | 11        |
| 28 | Are You Positive? Electric Dipole Polarity Discrimination in the Yellow Stingray, <i>Urobatis<br/>jamaicensis</i> . Biological Bulletin, 2013, 225, 85-91.                                         | 1.8 | 10        |
| 29 | Testing Biological Hypotheses with Embodied Robots: Adaptations, Accidents, and By-Products in the Evolution of Vertebrates. Frontiers in Robotics and Al, 2014, 1, .                              | 3.2 | 10        |
| 30 | How Does Soft Robotics Drive Research in Animal Locomotion?. Soft Robotics, 2014, 1, 161-168.                                                                                                      | 8.0 | 10        |
| 31 | Animal Metaphors and Metaphorizing Animals: An Integrated Literary, Cognitive, and Evolutionary<br>Analysis of Making and Partaking of Stories. Evolution: Education and Outreach, 2011, 4, 52-63. | 0.8 | 9         |
| 32 | Modeling a swimming fish with an initial boundary value problem: Unsteady maneuvers of an elastic plate with internal force generation. Mathematical and Computer Modelling, 1999, 30, 77-93.      | 2.0 | 8         |
| 33 | The notochord in Atlantic salmon ( Salmo salar L.) undergoes profound morphological and mechanical changes during development. Journal of Anatomy, 2017, 231, 639-654.                             | 1.5 | 8         |
| 34 | A multi-body approach for 6DOF modeling of Biomimetic Autonomous Underwater Vehicles with simulation and experimental results. , 2009, , .                                                         |     | 7         |
| 35 | Biomimetic evolutionary analysis: Robotically-simulated vertebrates in a predator-prey ecology. , 2009, , .                                                                                        |     | 6         |
| 36 | Morphology, mechanics, and locomotion: the relation between the notochord and swimming motions in Sturgeon. Developments in Environmental Biology of Fishes, 1995, , 199-211.                      | 0.2 | 6         |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Aquatic locomotion: New approaches to invertebrate and vertebrate biomechanics. American<br>Zoologist, 1996, 36, 535-536.                                                               | 0.7  | 5         |
| 38 | EVOLUTION OF BEHAVIOR AND NEURAL CONTROL OF THE FAST-START ESCAPE RESPONSE. Evolution;<br>International Journal of Organic Evolution, 2002, 56, 993.                                    | 2.3  | 5         |
| 39 | Connecting materials, performance and evolution: a case study of the glue of moth-catching spiders<br>(Cyrtarachninae). Journal of Experimental Biology, 2022, 225, .                   | 1.7  | 5         |
| 40 | Modularity and Sparsity: Evolution of Neural Net Controllers in Physically Embodied Robots.<br>Frontiers in Robotics and AI, 2016, 3, .                                                 | 3.2  | 4         |
| 41 | Epigenetic Operators and the Evolution of Physically Embodied Robots. Frontiers in Robotics and AI, 2017, 4, .                                                                          | 3.2  | 4         |
| 42 | Biorobotic insights into neuromechanical coordination of undulatory swimming. Science Robotics, 2021, 6, .                                                                              | 17.6 | 4         |
| 43 | Senses & Sensibility: Predator-Prey Experiments Reveal How Fish Perceive & Respond to Threats.<br>American Biology Teacher, 2008, 70, 462-467.                                          | 0.2  | 3         |
| 44 | Axial systems and their actuation: new twists on the ancient body of craniates. Zoology, 2014, 117, 1-6.                                                                                | 1.2  | 3         |
| 45 | Using Artificial Organisms To Study The Evolution of Backbones in Fish. , 2007, , .                                                                                                     |      | 2         |
| 46 | Rumors of Our Death…. Topics in Cognitive Science, 2019, 11, 864-868.                                                                                                                   | 1.9  | 2         |
| 47 | Heads and tails: The notochord develops differently in the cranium and caudal fin of Atlantic Salmon<br>( <scp><i>Salmo salar</i></scp> , L.). Anatomical Record, 2021, 304, 1629-1649. | 1.4  | 2         |
| 48 | Morphological Evolution: Bioinspired Methods for Analyzing Bioinspired Robots. Frontiers in Robotics and Al, 2021, 8, 717214.                                                           | 3.2  | 2         |
| 49 | Embodied Computational Evolution: Feedback Between Development and Evolution in Simulated Biorobots. Frontiers in Robotics and AI, 2021, 8, 674823.                                     | 3.2  | 1         |
| 50 | Toward Population-Level Biohybrid Systems: Bioinspiration and Behavior. , 2021, , .                                                                                                     |      | 1         |
| 51 | Editorial: Evolvability, Environments, Embodiment & Emergence in Robotics. Frontiers in Robotics and Al, 2018, 5, 103.                                                                  | 3.2  | 0         |
| 52 | Flapping flexible fish. , 2010, , 141-159.                                                                                                                                              |      | 0         |
| 53 | Evolution Ain't Engineering: Animals, Robots, and the Messy Struggle for Existence. Social and<br>Cultural Studies of Robots and AI, 2019, , 17-34.                                     | 0.2  | 0         |