

# Alexander Hunt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4225098/publications.pdf>

Version: 2024-02-01

21  
papers

244  
citations

1040056

9  
h-index

996975

15  
g-index

22  
all docs

22  
docs citations

22  
times ranked

150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analyzing Modeled Torque Profiles to Understand Scale-Dependent Active Muscle Responses in the Hip Joint. <i>Biomimetics</i> , 2022, 7, 17.	3.3	4
2	A three-dimensional musculoskeletal model of the dog. <i>Scientific Reports</i> , 2021, 11, 11335.	3.3	18
3	Extending the Functional Subnetwork Approach to a Generalized Linear Integrate-and-Fire Neuron Model. <i>Frontiers in Neurobotics</i> , 2020, 14, 577804.	2.8	9
4	Optimization of Artificial Muscle Placements for a Humanoid Bipedal Robot. <i>Lecture Notes in Computer Science</i> , 2020, , 257-269.	1.3	2
5	Using AnimateLab for Neuromechanical Analysis: Linear Hill Parameter Calculation. <i>Lecture Notes in Computer Science</i> , 2020, , 402-414.	1.3	0
6	Kinematic and Kinetic Analysis of a Biomechanical Model of Rat Hind Limb with Biarticular Muscles. <i>Lecture Notes in Computer Science</i> , 2020, , 55-67.	1.3	1
7	Determination of Artificial Muscle Placement for Biomimetic Humanoid Robot Legs. <i>Lecture Notes in Computer Science</i> , 2019, , 15-26.	1.3	2
8	Design of a Canine Inspired Quadruped Robot as a Platform for Synthetic Neural Network Control. <i>Lecture Notes in Computer Science</i> , 2019, , 228-239.	1.3	7
9	Analyzing Moment Arm Profiles in a Full-Muscle Rat Hindlimb Model. <i>Biomimetics</i> , 2019, 4, 10.	3.3	12
10	A Dynamic Neural Network Designed Using Analytical Methods Produces Dynamic Control Properties Similar to an Analogous Classical Controller. , 2019, 3, 320-325.		8
11	Neuromechanical Model of Rat Hindlimb Walking with Two-Layer CPGs. <i>Biomimetics</i> , 2019, 4, 21.	3.3	15
12	Biomimetic Knee Design to Improve Joint Torque and Life for Bipedal Robotics. <i>Lecture Notes in Computer Science</i> , 2018, , 91-102.	1.3	2
13	A Neuromechanical Rat Model with a Complete Set of Hind Limb Muscles. <i>Lecture Notes in Computer Science</i> , 2018, , 527-537.	1.3	1
14	Design process and tools for dynamic neuromechanical models and robot controllers. <i>Biological Cybernetics</i> , 2017, 111, 105-127.	1.3	42
15	Reactive stepping with functional neuromuscular stimulation in response to forward-directed perturbations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 54.	4.6	5
16	Development and Training of a Neural Controller for Hind Leg Walking in a Dog Robot. <i>Frontiers in Neurobotics</i> , 2017, 11, 18.	2.8	36
17	A Functional Subnetwork Approach to Designing Synthetic Nervous Systems That Control Legged Robot Locomotion. <i>Frontiers in Neurobotics</i> , 2017, 11, 37.	2.8	40
18	A biologically based neural system coordinates the joints and legs of a tetrapod. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 055004.	2.9	20

#	ARTICLE	IF	CITATIONS
19	Using Animal Data and Neural Dynamics to Reverse Engineer a Neuromechanical Rat Model. Lecture Notes in Computer Science, 2015, , 211-222.	1.3	12
20	Neuromechanical Simulation of an Inter-leg Controller for Tetrapod Coordination. Lecture Notes in Computer Science, 2014, , 142-153.	1.3	8
21	Experimental Verification of Kinematics and Kinetics in a Biomimetic Bipedal Robot. Journal of Mechanisms and Robotics, 0, , 1-14.	2.2	0