

Dustin L Crouch

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

626
citations

759055

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33
all docs

33
docs citations

33
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Preliminary Evaluation of a Wearable Passive Cam-Based Shoulder Exoskeleton. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	0.6	5
2	Fully Implanted Prostheses for Musculoskeletal Limb Reconstruction After Amputation: An In Vivo Feasibility Study. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1012-1021.	1.3	5
3	Optimization of Data Quality Related EMG Feature Extraction Parameters to Increase Hand Movement Classification Accuracy. , 2021, 2021, 612-615.		0
4	Using the Intact Human Hand to Benchmark Real-Time Myoelectric Control Performance for Robotic Interfaces. , 2021, 2021, 6524-6527.		0
5	Estimating Human Upper Limb Impedance Parameters From a State-of-the-Art Computational Neuromusculoskeletal Model. , 2021, 2021, 4820-4823.		2
6	Wearable Shoulder Exoskeleton with Spring-Cam Mechanism for Customizable, Nonlinear Gravity Compensation. , 2020, 2020, 4926-4929.		12
7	Effect of continuous, mechanically passive, anti-gravity assistance on kinematics and muscle activity during dynamic shoulder elevation. <i>Journal of Biomechanics</i> , 2020, 103, 109685.	0.9	8
8	Effect of Mechanically Passive, Wearable Shoulder Exoskeletons on Muscle Output During Dynamic Upper Extremity Movements: A Computational Simulation Study. <i>Journal of Applied Biomechanics</i> , 2020, 36, 59-67.	0.3	12
9	Optimal EMG placement for a robotic prosthesis controller with sequential, adaptive functional estimation (SAFE). <i>Annals of Applied Statistics</i> , 2020, 14, .	0.5	3
10	Comparing EMG-Based Human-Machine Interfaces for Estimating Continuous, Coordinated Movements. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 2145-2154.	2.7	46
11	Evaluation of EMG pattern recognition for upper limb prosthesis control: a case study in comparison with direct myoelectric control. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 23.	2.4	104
12	Relationship between glenoid deformity and gait characteristics in a rat model of neonatal brachial plexus injury. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1991-1997.	1.2	1
13	Myoelectric Control Based on a Generic Musculoskeletal Model: Toward a Multi-User Neural-Machine Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1435-1442.	2.7	51
14	Comparing Surface and Intramuscular Electromyography for Simultaneous and Proportional Control Based on a Musculoskeletal Model: A Pilot Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1735-1744.	2.7	28
15	Musculoskeletal model-based control interface mimics physiologic hand dynamics during path tracing task. <i>Journal of Neural Engineering</i> , 2017, 14, 036008.	1.8	35
16	Association of a Surgical Task During Training With Team Skill Acquisition Among Surgical Residents. <i>JAMA Surgery</i> , 2017, 152, 818.	2.2	17
17	Musculoskeletal model for simultaneous and proportional control of 3-DOF hand and wrist movements from EMG signals. , 2017, , .		12
18	Effects of output speed threshold on real-time continuous emg human-machine interface control. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Lumped-parameter electromyogram-driven musculoskeletal hand model: A potential platform for real-time prosthesis control. <i>Journal of Biomechanics</i> , 2016, 49, 3901-3907.	0.9	63
20	Simple EMG-driven musculoskeletal model enables consistent control performance during path tracing tasks. , 2016, 2016, 1-4.		4
21	Relationship between maximum isometric joint moment and functional task performance in patients with brachial plexus injury: A pilot study. <i>Gait and Posture</i> , 2016, 44, 238-244.	0.6	10
22	A Cyber Expert System for Auto-Tuning Powered Prosthesis Impedance Control Parameters. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1613-1624.	1.3	75
23	Musculoskeletal model predicts multi-joint wrist and hand movement from limited EMG control signals. , 2015, 2015, 1132-5.		10
24	Contributions of Muscle Imbalance and Impaired Growth to Postural and Osseous Shoulder Deformity Following Brachial Plexus Birth Palsy: A Computational Simulation Analysis. <i>Journal of Hand Surgery</i> , 2015, 40, 1170-1176.	0.7	29
25	Biomechanical Basis of Shoulder Osseous Deformity and Contracture in a Rat Model of Brachial Plexus Birth Palsy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 1264-1271.	1.4	30
26	Computational Sensitivity Analysis to Identify Muscles That Can Mechanically Contribute to Shoulder Deformity Following Brachial Plexus Birth Palsy. <i>Journal of Hand Surgery</i> , 2014, 39, 303-311.	0.7	23
27	Biomechanical Contributions of Posterior Deltoid and Teres Minor in the Context of Axillary Nerve Injury: A Computational Study. <i>Journal of Hand Surgery</i> , 2013, 38, 241-249.	0.7	26
28	Computer Simulation of Nerve Transfer Strategies for Restoring Shoulder Function After Adult C5 and C6 Root Avulsion Injuries. <i>Journal of Hand Surgery</i> , 2011, 36, 1644-1651.	0.7	9
29	Rabbit hindlimb kinematics and ground contact kinetics during the stance phase of gait. <i>PeerJ</i> , 0, 10, e13611.	0.9	4