Agnes Sturma

List of Publications by Year
in descending order

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36 papers	1,077 citations	471509 17 h-index	434195 31 g-index
42 all docs	42 docs citations	42 times ranked	801 citing authors

#	Article	IF	Citations
1	Bionic reconstruction to restore hand function after brachial plexus injury: a case series of three patients. Lancet, The, 2015, 385, 2183-2189.	13.7	116
2	Toward higher-performance bionic limbs for wider clinical use. Nature Biomedical Engineering, 2023, 7, 473-485.	22.5	104
3	Long-term implant of intramuscular sensors and nerve transfers for wireless control of robotic arms in above-elbow amputees. Science Robotics, 2019, 4, .	17.6	81
4	Translating Research on Myoelectric Control into Clinicsâ€"Are the Performance Assessment Methods Adequate?. Frontiers in Neurorobotics, 2017, 11, 7.	2.8	79
5	Neuralgic amyotrophy: a paradigm shift in diagnosis and treatment. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 879-888.	1.9	66
6	Current rates of prosthetic usage in upper-limb amputees â€“ have innovations had an impact on device acceptance?. Disability and Rehabilitation, 2022, 44, 3708-3713.	1.8	62
7	Functional and Psychosocial Outcomes of Hand Transplantation Compared with Prosthetic Fitting in Below-Elbow Amputees: A Multicenter Cohort Study. PLoS ONE, 2016, 11, e0162507.	2.5	56
8	Broadband Prosthetic Interfaces: Combining Nerve Transfers and Implantable Multichannel EMG Technology to Decode Spinal Motor Neuron Activity. Frontiers in Neuroscience, 2017, 11, 421.	2.8	39
9	Hand Transplantation Versus Hand Prosthetics: Pros and Cons. Current Surgery Reports, 2016, 4, 8.	0.9	37
10	PlayBionic: Gameâ€Based Interventions to Encourage Patient Engagement and Performance in Prosthetic Motor Rehabilitation. PM and R, 2018, 10, 1252-1260.	1.6	36
11	Outcomes, Challenges, and Pitfalls after Targeted Muscle Reinnervation in High-Level Amputees: Is It Worth the Effort?. Plastic and Reconstructive Surgery, 2019, 144, 1037e-1043e.	1.4	36
12	Elective amputation and bionic substitution restore functional hand use after critical soft tissue injuries. Scientific Reports, 2016, 6, 34960.	3.3	33
13	Algorithm for bionic hand reconstruction in patients with global brachial plexopathies. Journal of Neurosurgery, 2017, 127, 1163-1171.	1.6	32
14	Common Synaptic Input to Motor Neurons and Neural Drive to Targeted Reinnervated Muscles. Journal of Neuroscience, 2017, 37, 11285-11292.	3.6	32
15	Increasing motivation, effort and performance through game-based rehabilitation for upper limb myoelectric prosthesis control. , 2017, , .		25
16	Homeâ€Based Tactile Discrimination Training Reduces Phantom Limb Pain. Pain Practice, 2018, 18, 709-715.	1.9	22
17	A Structured Rehabilitation Protocol for Improved Multifunctional Prosthetic Control: A Case Study. Journal of Visualized Experiments, 2015, , e52968.	0.3	20
18	A surface EMG test tool to measure proportional prosthetic control. Biomedizinische Technik, 2015, 60, 207-13.	0.8	18

#	Article	IF	Citations
19	Attachment of upper arm prostheses with a subcutaneous osseointegrated implant in transhumeral amputees. Prosthetics and Orthotics International, 2018, 42, 93-100.	1.0	17
20	The Vienna psychosocial assessment procedure for bionic reconstruction in patients with global brachial plexus injuries. PLoS ONE, 2018, 13, e0189592.	2.5	15
21	Structured Motor Rehabilitation After Selective Nerve Transfers. Journal of Visualized Experiments, 2019, , .	0.3	14
22	Bionic Upper Limb Reconstruction: A Valuable Alternative in Global Brachial Plexus Avulsion Injuriesâ€"A Case Series. Journal of Clinical Medicine, 2020, 9, 23.	2.4	14
23	Functional Outcome Scores With Standard Myoelectric Prostheses in Below-Elbow Amputees. American Journal of Physical Medicine and Rehabilitation, 2019, 98, 125-129.	1.4	13
24	Recommendations for Games to Increase Patient Motivation During Upper Limb Amputee Rehabilitation. Biosystems and Biorobotics, 2017, , 1157-1161.	0.3	12
25	Prosthetic reconstruction to restore function in transcarpal amputees. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2016, 69, 305-310.	1.0	10
26	Rehabilitation of high upper limb amputees after Targeted Muscle Reinnervation. Journal of Hand Therapy, 2022, 35, 58-66.	1.5	10
27	Improving arm function by prosthetic limb replacement in a patient with severe arthrogryposis multiplex congenita. Journal of Rehabilitation Medicine, 2016, 48, 725-728.	1.1	7
28	Surface Electromyographic Biofeedback as a Rehabilitation Tool for Patients with Global Brachial Plexus Injury Receiving Bionic Reconstruction. Journal of Visualized Experiments, 2019, , .	0.3	7
29	Advanced Rehabilitation for Amputees after Selective Nerve Transfers: EMG-Guided Training and Testing. Biosystems and Biorobotics, 2014, , 169-177.	0.3	6
30	The long-term effects of an implantable drop foot stimulator on gait in hemiparetic patients. PLoS ONE, 2019, 14, e0214991.	2.5	4
31	Feasibility of a Wireless Implantable Multi-electrode System for High-bandwidth Prosthetic Interfacing: Animal and Cadaver Study. Clinical Orthopaedics and Related Research, 2022, 480, 1191-1204.	1.5	4
32	3D Body Image Perception and Pain Visualization Tool for Upper Limb Amputees. , 2019, , .		3
33	Rehabilitation Following Targeted Muscle Reinnervation in Amputees. Biosystems and Biorobotics, 2014, , 775-779.	0.3	3
34	Tensor fasciae latae-tendon transfer for functional reconstruction of the quadriceps muscle after femoral nerve palsy. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2015, 68, 129-131.	1.0	2
35	Successful salvage via re-osseointegration of a loosened implant in a patient with transtibial amputation. Prosthetics and Orthotics International, 2021, 45, 76-80.	1.0	2
36	Actual prosthetic usage in relation to functional outcomes and wearing time in individuals with below-elbow amputation. Prosthetics and Orthotics International, 2022, 46, 408-413.	1.0	1