

# Arthur Prochazka

## List of Publications by Year in descending order

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44  
papers

3,206  
citations

257101

24  
h-index

315357

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Proprioceptor Models. , 2022, , 2899-2917.		0
2	Proprioception: clinical relevance and neurophysiology. Current Opinion in Physiology, 2021, 23, 100440.	0.9	12
3	Secondary endings of muscle spindles: Structure, reflex action, role in motor control and proprioception. Experimental Physiology, 2021, 106, 2339-2366.	0.9	22
4	Motor Neuroprostheses. , 2018, 9, 127-148.		6
5	Neurophysiology and neural engineering: a review. Journal of Neurophysiology, 2017, 118, 1292-1309.	0.9	30
6	Neuromuscular Models for Locomotion. , 2017, , 401-453.		9
7	Targeted stimulation of the spinal cord to restore locomotor activity. Nature Medicine, 2016, 22, 125-126.	15.2	10
8	Neural Prostheses for Neurotrauma. , 2016, , 457-478.		1
9	Sensory control of normal movement and of movement aided by neural prostheses. Journal of Anatomy, 2015, 227, 167-177.	0.9	16
10	A Fully Automated, Quantitative Test of Upper Limb Function. Journal of Motor Behavior, 2015, 47, 19-28.	0.5	22
11	Proprioceptor Models. , 2014, , 1-20.		1
12	Sensory Systems in the Control of Movement. , 2012, 2, 2615-2627.		71
13	Passive Devices for Upper Limb Training. , 2012, , 159-171.		5
14	In-Home Tele-Rehabilitation Improves Tetraplegic Hand Function. Neurorehabilitation and Neural Repair, 2011, 25, 412-422.	1.4	100
15	Technology improves upper extremity rehabilitation. Progress in Brain Research, 2011, 192, 147-159.	0.9	13
16	Predictive and reactive tuning of the locomotor CPG. Integrative and Comparative Biology, 2007, 47, 474-481.	0.9	24
17	The neuromechanical tuning hypothesis. Progress in Brain Research, 2007, 165, 255-265.	0.9	40
18	A New Means of Transcutaneous Coupling for Neural Prostheses. IEEE Transactions on Biomedical Engineering, 2007, 54, 509-517.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Movements elicited by electrical stimulation of muscles, nerves, intermediate spinal cord, and spinal roots in anesthetized and decerebrate cats. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 1-11.	2.7	36
20	A functional electric stimulationâ€”assisted exercise therapy system for hemiplegic hand function11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 881-885.	0.5	62
21	SPINAL CORD AND ROOTLETS. Series on Bioengineering and Biomedical Engineering, 2004, , 786-806.	0.1	2
22	SPINAL CORD STIMULATION FOR RESTORING LOWER EXTREMITY FUNCTION. Series on Bioengineering and Biomedical Engineering, 2004, , 1035-1053.	0.1	1
23	Sensory Control of Locomotion: Reflexes Versus Higher-Level Control. Advances in Experimental Medicine and Biology, 2002, 508, 357-367.	0.8	51
24	Chapter 9 Activation and coordination of spinal motoneuron pools after spinal cord injury. Progress in Brain Research, 2002, 137, 109-124.	0.9	28
25	Intraspinal micro stimulation generates locomotor-like and feedback-controlled movements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 68-81.	2.7	118
26	The man-machine analogy in robotics and neurophysiology. Journal of Automatic Control, 2002, 12, 4-8.	1.0	4
27	Neural prostheses. Journal of Physiology, 2001, 533, 99-109.	1.3	140
28	Adaptive changes in locomotor control after partial denervation of triceps surae muscles in the cat. Journal of Physiology, 2001, 533, 299-311.	1.3	36
29	Isometric muscle lengthâ€”tension curves do not predict angleâ€”torque curves of human wrist in continuous active movements. Journal of Biomechanics, 2000, 33, 1341-1348.	0.9	22
30	What do reflex and voluntary mean? Modern views on an ancient debate. Experimental Brain Research, 2000, 130, 417-432.	0.7	151
31	Voluntary and reflex control of human back muscles during induced pain. Journal of Physiology, 1999, 520, 591-604.	1.3	193
32	Chapter 11 Quantifying Proprioception. Progress in Brain Research, 1999, 123, 133-142.	0.9	62
33	Models of ensemble firing of muscle spindle afferents recorded during normal locomotion in cats. Journal of Physiology, 1998, 507, 277-291.	1.3	142
34	Ensemble firing of muscle afferents recorded during normal locomotion in cats. Journal of Physiology, 1998, 507, 293-304.	1.3	144
35	The continuing debate about CNS control of proprioception. Journal of Physiology, 1998, 513, 315-315.	1.3	16
36	The bionic glove: An electrical stimulator garment that provides controlled grasp and hand opening in quadriplegia. Archives of Physical Medicine and Rehabilitation, 1997, 78, 608-614.	0.5	211

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37	Implications of Positive Feedback in the Control of Movement. Journal of Neurophysiology, 1997, 77, 3237-3251.	0.9	160
38	Positive Force Feedback Control of Muscles. Journal of Neurophysiology, 1997, 77, 3226-3236.	0.9	152
39	Phasic activity in the human erector spinae during repetitive hand movements. Journal of Physiology, 1997, 504, 727-734.	1.3	28
40	Measurement of rigidity in Parkinson's disease. Movement Disorders, 1997, 12, 24-32.	2.2	121
41	Catching a ball: contributions of intrinsic muscle stiffness, reflexes, and higher order responses. Canadian Journal of Physiology and Pharmacology, 1994, 72, 525-534.	0.7	61
42	Attenuation of pathological tremors by functional electrical stimulation I: Method. Annals of Biomedical Engineering, 1992, 20, 205-224.	1.3	132
43	Attenuation of pathological tremors by functional electrical stimulation II: Clinical evaluation. Annals of Biomedical Engineering, 1992, 20, 225-236.	1.3	65
44	Sensorimotor gain control: A basic strategy of motor systems?. Progress in Neurobiology, 1989, 33, 281-307.	2.8	516