Winfried Mayr

List of Publications by Year
in descending order

43 papers	1,213 citations	430874 18 h-index	377865 34 g-index
44 all docs	44 docs citations	44 times ranked	1210 citing authors

#	Article	IF	Citations
1	Human spinal locomotor control is based on flexibly organized burst generators. Brain, 2015, 138, 577-588.	7.6	139
2	Electrical Stimulation Counteracts Muscle Decline in Seniors. Frontiers in Aging Neuroscience, 2014, 6, 189.	3.4	128
3	Augmentation of Voluntary Locomotor Activity by Transcutaneous Spinal Cord Stimulation in Motorâ€incomplete Spinal Cordâ€injured Individuals. Artificial Organs, 2015, 39, E176-86.	1.9	112
4	Spinal Rhythm Generation by Step-Induced Feedback and Transcutaneous Posterior Root Stimulation in Complete Spinal Cordâ€“Injured Individuals. Neurorehabilitation and Neural Repair, 2016, 30, 233-243.	2.9	98
5	Transcutaneous Spinal Cord Stimulation Induces Temporary Attenuation of Spasticity in Individuals with Spinal Cord Injury. Journal of Neurotrauma, 2020, 37, 481-493.	3.4	87
6	Physical activity in elderly. European Journal of Translational Myology, 2015, 25, 249.	1.7	68
7	Physical exercise in Aging: Nine weeks of leg press or electrical stimulation training in 70 years old sedentary elderly people. European Journal of Translational Myology, 2015, 25, 237.	1.7	67
8	Periodic modulation of repetitively elicited monosynaptic reflexes of the human lumbosacral spinal cord. Journal of Neurophysiology, 2015, 114, 400-410.	1.8	65
9	Body Position Influences Which Neural Structures Are Recruited by Lumbar Transcutaneous Spinal Cord Stimulation. PLoS ONE, 2016, 11, e0147479.	2.5	64
10	Epidural and transcutaneous spinal electrical stimulation for restoration of movement after incomplete and complete spinal cord injury. Current Opinion in Neurology, 2016, 29, 721-726.	3.6	40
11	Neurocontrol of Movement in Humans With Spinal Cord Injury. Artificial Organs, 2015, 39, 823-833.	1.9	39
12	Dynamic Impedance Model of the Skin-Electrode Interface for Transcutaneous Electrical Stimulation. PLoS ONE, 2015, 10, e0125609.	2.5	39
13	The insufficiencies of risk analysis of impending pathological fractures in patients with femoral metastases: A literature review. Bone Reports, 2016, 5, 51-56.	0.4	35
14	QCT-based finite element prediction of pathologic fractures in proximal femora with metastatic lesions. Scientific Reports, 2019, 9, 10305.	3.3	28
15	Effect of simulated metastatic lesions on the biomechanical behavior of the proximal femur. Journal of Orthopaedic Research, 2017, 35, 2407-2414.	2.3	27
16	Multiâ€Electrode Array for Transcutaneous Lumbar Posterior Root Stimulation. Artificial Organs, 2015, 39, 834-840.	1.9	25
17	A finite element analysis of two novel screw designs for scaphoid waist fractures. Medical Engineering and Physics, 2016, 38, 131-139.	1.7	20
18	Bionic hand as artificial organ: Current status and future perspectives. Artificial Organs, 2019, 43, 109-118.	1.9	20

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19	Neuromuscular electrical stimulation for mobility support of elderly. European Journal of Translational Myology, 2015, 25, 263.	1.7	11
20	Rotational Stability of Scaphoid Osteosyntheses: An In Vitro Comparison of Small Fragment Cannulated Screws to Novel Bone Screw Sets. PLoS ONE, 2016, 11, e0156080.	2.5	11
21	Comparison of Twitch Responses During Currentâ€or Voltageâ€Controlled Transcutaneous Neuromuscular Electrical Stimulation. Artificial Organs, 2015, 39, 868-875.	1.9	9
22	Motor Control of Human Spinal Cord Disconnected from the Brain and Under External Movement. Advances in Experimental Medicine and Biology, 2016, 957, 159-171.	1.6	9
23	Optimization of Interphase Intervals to Enhance the Evoked Muscular Responses of Transcutaneous Neuromuscular Electrical Stimulation. Artificial Organs, 2017, 41, 1145-1152.	1.9	9
24	Selective Electrical Surface Stimulation to Support Functional Recovery in the Early Phase After Unilateral Acute Facial Nerve or Vocal Fold Paralysis. Frontiers in Neurology, 2022, 13, 869900.	2.4	7
25	Post-meeting report of the 2022 On-site Padua Days on Muscle and Mobility Medicine, March 30 - April 3, 2022, Padua, Italy. European Journal of Translational Myology, 2022, 32, .	1.7	7
26	Effects of sustained electrical stimulation on spasticity assessed by the pendulum test. Current Directions in Biomedical Engineering, 2016, 2, 405-407.	0.4	5
27	Bipolar transcutaneous spinal stimulation evokes short-latency reflex responses in human lower limbs alike standard unipolar electrode configuration. Journal of Neurophysiology, 2020, 124, 1072-1082.	1.8	5
28	Comparison of voice therapy and selective electrical stimulation of the larynx in early unilateral vocal fold paralysis after thyroid surgery: A retrospective data analysis. Clinical Otolaryngology, 2021, 46, 530-537.	1.2	5
29	In Vitro Testing of an Implantable Wireless Telemetry System for Long-Term Electromyography Recordings in Large Animals. Artificial Organs, 2015, 39, 897-902.	1.9	4
30	In vitro experimental investigation of the forces and torque acting on the scaphoid during light grasp. Journal of Orthopaedic Research, 2016, 34, 1734-1742.	2.3	4
31	Sub-threshold depolarizing pre-pulses can enhance the efficiency of biphasic stimuli in transcutaneous neuromuscular electrical stimulation. Medical and Biological Engineering and Computing, 2018, 56, 2213-2219.	2.8	4
32	Objectivation of laryngeal electromyography (LEMG) data: turn number vs. qualitative analysis. European Archives of Oto-Rhino-Laryngology, 2020, 277, 1409-1415.	1.6	4
33	Neurophysiology of epidurally evoked spinal cord reflexes in clinically motor-complete posttraumatic spinal cord injury. Experimental Brain Research, 2021, 239, 2605-2620.	1.5	4
34	Clinical application of an eight channel stimulation system for mobilization of individuals with paraplegia: First results. Technology and Disability, 2005, 17, 85-92.	0.6	2
35	HRV (Heart Rate Variability) as a non-invasive measurement method for performance diagnostics and training control. Current Directions in Biomedical Engineering, 2019, 5, 97-100.	0.4	2
36	Pull-out forces of headless compression screws in variations of synthetic bone models imitating different types of scaphoid fractures in good bone quality. Journal of Materials Science: Materials in Medicine, 2020, 31, 92.	3.6	2

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37	Wrist movements induce torque and lever force in the scaphoid: an ex vivo study. Journal of Orthopaedic Surgery and Research, 2020, 15, 368.	2.3	2
38	Human Spinal Cord Motor Control That is Partially or Completely Disconnected from the Brain. American Journal of Neuroprotection and Neuroregeneration, 2016, 8, 12-26.	0.1	2
39	Functional Electrical Stimulation. Artificial Organs, 2017, 41, 977-978.	1.9	2
40	A biomechanical in-vitro study on an alternative fixation technique of the pubic symphysis for open book injuries of the pelvis.. Injury, 2021, , .	1.7	1
41	Non-invasive transcutaneous stimulation of the human lumbar spinal cord facilitates locomotor output in spinal cord injury. Biomedizinische Technik, 2012, 57, .	0.8	0
42	Herwig Thoma, PhD: Pioneer in Artificial Heart and Functional Electrical Stimulation. Artificial Organs, 2015, 39, 645-646.	1.9	0
43	Highlights from the IFESS 2021 conferences. Artificial Organs, 2022, 46, 521-524.	1.9	0