

# Simon M Danner

## List of Publications by Year in descending order

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46  
papers

1,310  
citations

430874

18  
h-index

454955

30  
g-index

56  
all docs

56  
docs citations

56  
times ranked

884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of Afferent Feedback to Adaptive Hindlimb Walking in Cats: A Neuromusculoskeletal Modeling Study. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 825149.	4.1	2
2	The role of V3 neurons in speed-dependent interlimb coordination during locomotion in mice. <i>ELife</i> , 2022, 11, .	6.0	18
3	Finite Element Models of Transcutaneous Spinal Cord Stimulation. , 2022, , 1434-1439.		0
4	Finite Element Modeling for Extracellular Stimulation. , 2022, , 1423-1432.		0
5	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2022, , 2581-2599.		0
6	Ipsi- and Contralateral Oligo- and Polysynaptic Reflexes in Humans Revealed by Low-Frequency Epidural Electrical Stimulation of the Lumbar Spinal Cord. <i>Brain Sciences</i> , 2021, 11, 112.	2.3	5
7	Computational Modeling of Spinal Locomotor Circuitry in the Age of Molecular Genetics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6835.	4.1	10
8	Influence of Spine Curvature on the Efficacy of Transcutaneous Lumbar Spinal Cord Stimulation. <i>Journal of Clinical Medicine</i> , 2021, 10, 5543.	2.4	7
9	A Whole-Body Musculoskeletal Model of the Mouse. <i>IEEE Access</i> , 2021, 9, 163861-163881.	4.2	9
10	Transcutaneous Spinal Cord Stimulation Induces Temporary Attenuation of Spasticity in Individuals with Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 481-493.	3.4	87
11	On the Organization of the Locomotor CPG: Insights From Split-Belt Locomotion and Mathematical Modeling. <i>Frontiers in Neuroscience</i> , 2020, 14, 598888.	2.8	10
12	Phase-Dependent Response to Afferent Stimulation During Fictive Locomotion: A Computational Modeling Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 1288.	2.8	5
13	Spinal V3 Interneurons and Left-Right Coordination in Mammalian Locomotion. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 516.	3.7	47
14	Computational modeling of brainstem circuits controlling locomotor frequency and gait. <i>ELife</i> , 2019, 8, .	6.0	43
15	Intralimb and Interlimb Cutaneous Reflexes during Locomotion in the Intact Cat. <i>Journal of Neuroscience</i> , 2018, 38, 4104-4122.	3.6	33
16	Computational modeling of spinal circuits controlling limb coordination and gaits in quadrupeds. <i>ELife</i> , 2017, 6, .	6.0	95
17	Body Position Influences Which Neural Structures Are Recruited by Lumbar Transcutaneous Spinal Cord Stimulation. <i>PLoS ONE</i> , 2016, 11, e0147479.	2.5	64
18	Central control of interlimb coordination and speed-dependent gait expression in quadrupeds. <i>Journal of Physiology</i> , 2016, 594, 6947-6967.	2.9	89

#	ARTICLE	IF	CITATIONS
19	Spinal Rhythm Generation by Step-Induced Feedback and Transcutaneous Posterior Root Stimulation in Complete Spinal Cordâ€“Injured Individuals. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 233-243.	2.9	98
20	Periodic modulation of repetitively elicited monosynaptic reflexes of the human lumbosacral spinal cord. <i>Journal of Neurophysiology</i> , 2015, 114, 400-410.	1.8	65
21	Neurocontrol of Movement in Humans With Spinal Cord Injury. <i>Artificial Organs</i> , 2015, 39, 823-833.	1.9	39
22	Human spinal locomotor control is based on flexibly organized burst generators. <i>Brain</i> , 2015, 138, 577-588.	7.6	139
23	Augmentation of Voluntary Locomotor Activity by Transcutaneous Spinal Cord Stimulation in Motorâ€“Incomplete Spinal Cordâ€“Injured Individuals. <i>Artificial Organs</i> , 2015, 39, E176-86.	1.9	112
24	Multiâ€“Electrode Array for Transcutaneous Lumbar Posterior Root Stimulation. <i>Artificial Organs</i> , 2015, 39, 834-840.	1.9	25
25	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2015, , 2194-2212.		0
26	Finite Element Models of Transcutaneous Spinal Cord Stimulation. , 2015, , 1197-1202.		0
27	Finite Element Modeling for Extracellular Stimulation. , 2015, , 1186-1195.		0
28	Peak I of the human auditory brainstem response results from the somatic regions of type I spiral ganglion cells: Evidence from computer modeling. <i>Hearing Research</i> , 2014, 315, 67-79.	2.0	25
29	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2014, , 1-21.		1
30	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2014, , 1-21.		1
31	Finite Element Models of Transcutaneous Spinal Cord Stimulation. , 2014, , 1-6.		4
32	Potential Distribution and Nerve Fiber Responses in Transcutaneous Lumbosacral Spinal Cord Stimulation. <i>IFMBE Proceedings</i> , 2014, , 203-208.	0.3	7
33	Energy-Optimal Electrical-Stimulation Pulses Shaped by the Least-Action Principle. <i>PLoS ONE</i> , 2014, 9, e90480.	2.5	24
34	Finite Element Modeling for Extracellular Stimulation. , 2014, , 1-12.		3
35	Design of a Multi-site Electrical Stimulation System for Transcutaneous Lumbar Posterior Roots Stimulation. <i>IFMBE Proceedings</i> , 2014, , 43-46.	0.3	0
36	Locomotor rhythm and pattern generating networks of the human lumbar spinal cord: an electrophysiological and computer modeling study. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	2

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37	Effect of Functional Electrical Stimulation on the Central State of Excitability of the Spinal Cord. IFMBE Proceedings, 2013, , 2240-2243.	0.3	0
38	Effects of transcutaneous spinal cord stimulation on voluntary locomotor activity in an incomplete spinal cord injured individual. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	51
39	Selectivity of transcutaneous stimulation of lumbar posterior roots at different spinal levels in humans. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	28
40	Health-related and legal interventions: A comparison of allegedly delinquent and convicted opioid addicts in Austria. Drug Science, Policy and Law, 2013, 1, 205032451452844.	1.3	2
41	Pattern Generating Networks in the Human Lumbar Spinal Cord: Electrophysiology and Computer Modeling. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	0
42	Mechanisms of rhythm generation of the human lumbar spinal cord in response to tonic stimulation without and with step-related sensory feedback. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	15
43	Finite Element Modeling for Extracellular Stimulation. , 2013, , 1-12.		2
44	Paraspinal Magnetic and Transcutaneous Electrical Stimulation. , 2013, , 1-20.		0
45	Non-invasive transcutaneous stimulation of the human lumbar spinal cord facilitates locomotor output in spinal cord injury. Biomedizinische Technik, 2012, 57, .	0.8	0
46	Can the Human Lumbar Posterior Columns Be Stimulated by Transcutaneous Spinal Cord Stimulation? A Modeling Study. Artificial Organs, 2011, 35, 257-262.	1.9	134