

# Richard F Ff Weir

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,364  
citations

566801

15  
h-index

642321

23  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward higher-performance bionic limbs for wider clinical use. <i>Nature Biomedical Engineering</i> , 2023, 7, 473-485.	11.6	104
2	Optogenetic stimulation of cholinergic fibers for the modulation of insulin and glycemia. <i>Scientific Reports</i> , 2021, 11, 3670.	1.6	17
3	The future of adenoassociated viral vectors for optogenetic peripheral nerve interfaces. <i>Neural Regeneration Research</i> , 2021, 16, 1446.	1.6	0
4	Comparison of Myoelectric Control Schemes for Simultaneous Hand and Wrist Movement using Chronically Implanted Electromyography: A Case Series*. , 2021, 2021, 6224-6230.		1
5	A Myoelectric Postural Control Algorithm for Persons With Transradial Amputations: A Consideration of Clinical Readiness. <i>IEEE Robotics and Automation Magazine</i> , 2020, 27, 77-86.	2.2	8
6	Design of a High-Speed Prosthetic Finger Driven by Peano-HASEL Actuators. <i>Frontiers in Robotics and AI</i> , 2020, 7, 586216.	2.0	22
7	Real-Time Prosthetic Digit Actuation by Optical Read-out of Activity-Dependent Calcium Signals in an Ex Vivo Peripheral Nerve. , 2019, , .		2
8	Design and evaluation of a distally actuated powered finger prosthesis with self-contained transmission for individuals with partial hand loss. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983411.	0.8	10
9	Intravascular injections of adenoassociated viral vector serotypes rh10 and PHP.B transduce murine sciatic nerve axons. <i>Neuroscience Letters</i> , 2019, 706, 51-55.	1.0	3
10	User surveys support designing a prosthetic wrist that incorporates the Dart Throwerâ€™s Motion. <i>Disability and Rehabilitation: Assistive Technology</i> , 2019, 14, 312-315.	1.3	1
11	On the development of optical peripheral nerve interfaces. <i>Neural Regeneration Research</i> , 2019, 14, 425.	1.6	14
12	Functional Assessment of a Myoelectric Postural Controller and Multi-Functional Prosthetic Hand by Persons With Trans-Radial Limb Loss. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 618-627.	2.7	40
13	Extrapolation of Emerging Technologies and Their Long-Term Implications for Myoelectric versus Body-Powered Prostheses: An Engineering Perspective. <i>Journal of Prosthetics and Orthotics</i> , 2017, 29, P63-P74.	0.2	3
14	Design and Fabrication of a Six Degree-of-Freedom Open Source Hand. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 562-572.	2.7	49
15	Extrinsic Finger and Thumb Muscles Command a Virtual Hand to Allow Individual Finger and Grasp Control. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 218-226.	2.5	28
16	Humans can integrate feedback of discrete events in their sensorimotor control of a robotic hand. <i>Experimental Brain Research</i> , 2014, 232, 3421-3429.	0.7	70
17	Comparative study of state-of-the-art myoelectric controllers for multigrasp prosthetic hands. <i>Journal of Rehabilitation Research and Development</i> , 2014, 51, 1439-1454.	1.6	28
18	Dexterous Control of a Prosthetic Hand Using Fine-Wire Intramuscular Electrodes in Targeted Extrinsic Muscles. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 828-836.	2.7	79

#	ARTICLE	IF	CITATIONS
19	Design and Validation of a Morphing Myoelectric Hand Posture Controller Based on Principal Component Analysis of Human Grasping. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 249-257.	2.7	34
20	Effect of compliance location in series elastic actuators. Robotica, 2013, 31, 1313-1318.	1.3	15
21	Activation of individual extrinsic thumb muscles and compartments of extrinsic finger muscles. Journal of Neurophysiology, 2013, 110, 1385-1392.	0.9	21
22	Quantification of isolated muscle compartment activity in extrinsic finger muscles for potential prosthesis control sites. , 2011, 2011, 4104-7.		4
23	Implantable Myoelectric Sensors (IMESs) for Intramuscular Electromyogram Recording. IEEE Transactions on Biomedical Engineering, 2009, 56, 159-171.	2.5	223
24	User-Modulated Impedance Control of a Prosthetic Elbow in Unconstrained, Perturbed Motion. IEEE Transactions on Biomedical Engineering, 2008, 55, 1043-1055.	2.5	65
25	A Comparison of the Effects of Electrode Implantation and Targeting on Pattern Classification Accuracy for Prosthesis Control. IEEE Transactions on Biomedical Engineering, 2008, 55, 2198-2211.	2.5	134
26	Reliability of Implantable MyoElectric Sensors (IMES). , 2008, , .		1
27	Simulation of Intramuscular EMG Signals Detected Using Implantable Myoelectric Sensors (IMES). IEEE Transactions on Biomedical Engineering, 2006, 53, 1926-1933.	2.5	39
28	Survey report on neural-machine interface for multifunctional upper limb prostheses. Journal of Life Support Engineering, 2006, 18, 159-159.	0.1	0
29	A heuristic fuzzy logic approach to EMG pattern recognition for multifunctional prosthesis control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 280-291.	2.7	349