David A Friedenberg

List of Publications by Year
in descending order

17 papers	**1,286** citations	840776 **11** h-index	940533 **16** g-index
17 all docs	**17** docs citations	**17** times ranked	**1554** citing authors

#	ARTICLE	IF	CITATIONS
1	Restoring cortical control of functional movement in a human with quadriplegia. Nature, 2016, 533, 247-250.	27.8	723
2	Meeting brain–computer interface user performance expectations using a deep neural network decoding framework. Nature Medicine, 2018, 24, 1669-1676.	30.7	123
3	Motor neuroprosthesis implanted with neurointerventional surgery improves capacity for activities of daily living tasks in severe paralysis: first in-human experience. Journal of NeuroInterventional Surgery, 2021, 13, 102-108.	3.3	106
4	Restoring the Sense of Touch Using a Sensorimotor Demultiplexing Neural Interface. Cell, 2020, 181, 763-773.e12.	28.9	94
5	Dexterous Control of Seven Functional Hand Movements Using Cortically-Controlled Transcutaneous Muscle Stimulation in a Person With Tetraplegia. Frontiers in Neuroscience, 2018, 12, 208.	2.8	53
6	Clinically Significant Gains in Skillful Grasp Coordination by an Individual With Tetraplegia Using an Implanted Brain-Computer Interface With Forearm Transcutaneous Muscle Stimulation. Archives of Physical Medicine and Rehabilitation, 2019, 100, 1201-1217.	0.9	39
7	Time Stability and Coherence Analysis of Multiunit, Single-Unit and Local Field Potential Neuronal Signals in Chronically Implanted Brain Electrodes. Bioelectronic Medicine, 2015, 2, 63-71.	2.3	37
8	Extracting wavelet based neural features from human intracortical recordings for neuroprosthetics applications. Bioelectronic Medicine, 2018, 4, 11.	2.3	27
9	Identification of New and Distinctive Exposures from Little Cigars. Chemical Research in Toxicology, 2016, 29, 162-168.	3.3	26
10	Use of Comprehensive Two-Dimensional Gas Chromatography with Time-of-Flight Mass Spectrometric Detection and Random Forest Pattern Recognition Techniques for Classifying Chemical Threat Agents and Detecting Chemical Attribution Signatures. Analytical Chemistry, 2016, 88, 7068-7075.	6.5	22
11	Sense of agency for intracortical brain–machine interfaces. Nature Human Behaviour, 2022, 6, 565-578.	12.0	15
12	Chemical characterization of marijuana blunt smoke by non-targeted chemical analysis. Inhalation Toxicology, 2020, 32, 177-187.	1.6	8
13	Straight to the Source: Detecting Aggregate Objects in Astronomical Images With Proper Error Control. Journal of the American Statistical Association, 2013, 108, 456-468.	3.1	5
14	Dynamic detection and reversal of myocardial ischemia using an artificially intelligent bioelectronic medicine. Science Advances, 2022, 8, eabj5473.	10.3	4
15	Decoding hand and Wrist Movement Intention From Chronic Stroke Survivors With Hemiparesis Using A Wearable, User-Centric Neural Interface. Archives of Physical Medicine and Rehabilitation, 2022, 103, e14-e15.	0.9	3
16	A procedure to detect and identify specific chemicals of potential inhalation toxicity concern in aerosols. Inhalation Toxicology, 2022, , 1-15.	1.6	1
17	A Portable, User-Controlled FES System for Upper Limb Reanimation in Individuals with Tetraplegia. Archives of Physical Medicine and Rehabilitation, 2020, 101, e89-e90.	0.9	0