

# Emad N Eskandar

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

5,587  
citations

109321

35  
h-index

95266

68  
g-index

96  
all docs

96  
docs citations

96  
times ranked

6712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-loop enhancement and neural decoding of cognitive control in humans. <i>Nature Biomedical Engineering</i> , 2023, 7, 576-588.	22.5	29
2	Aura Type and Outcome Following Anterior Temporal Lobectomy. <i>World Neurosurgery</i> , 2022, , .	1.3	0
3	Local and distant cortical responses to single pulse intracranial stimulation in the human brain are differentially modulated by specific stimulation parameters. <i>Brain Stimulation</i> , 2022, 15, 491-508.	1.6	24
4	Phasic stimulation in the nucleus accumbens enhances learning after traumatic brain injury. <i>Cerebral Cortex Communications</i> , 2022, 3, tgac016.	1.6	3
5	Widespread ripples synchronize human cortical activity during sleep, waking, and memory recall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	29
6	Auditory cues reveal intended movement information in middle frontal gyrus neuronal ensemble activity of a person with tetraplegia. <i>Scientific Reports</i> , 2021, 11, 98.	3.3	12
7	Travelling spindles create necessary conditions for spike-timing-dependent plasticity in humans. <i>Nature Communications</i> , 2021, 12, 1027.	12.8	45
8	Microscale Physiological Events on the Human Cortical Surface. <i>Cerebral Cortex</i> , 2021, 31, 3678-3700.	2.9	29
9	Double blind randomized controlled trial of deep brain stimulation for obsessive-compulsive disorder: Clinical trial design. <i>Contemporary Clinical Trials Communications</i> , 2021, 22, 100785.	1.1	10
10	Home Use of a Percutaneous Wireless Intracortical Brain-Computer Interface by Individuals With Tetraplegia. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2313-2325.	4.2	83
11	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. <i>NeuroImage</i> , 2021, 237, 118094.	4.2	31
12	Early Detection of Human Epileptic Seizures Based on Intracortical Microelectrode Array Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 817-831.	4.2	20
13	Exome Sequencing Implicates Impaired GABA Signaling and Neuronal Ion Transport in Trigeminal Neuralgia. <i>iScience</i> , 2020, 23, 101552.	4.1	32
14	A case of non-affective psychosis followed by extended response to non-stimulation in deep brain stimulation for obsessive-compulsive disorder. <i>Brain Stimulation</i> , 2020, 13, 1317-1319.	1.6	2
15	A novel severity score to predict inpatient mortality in COVID-19 patients. <i>Scientific Reports</i> , 2020, 10, 16726.	3.3	97
16	CLOSES: A platform for closed-loop intracranial stimulation in humans. <i>NeuroImage</i> , 2020, 223, 117314.	4.2	21
17	Dynamics of recovery from anaesthesia-induced unconsciousness across primate neocortex. <i>Brain</i> , 2020, 143, 833-843.	7.6	9
18	Dynamic mapping of the corticospinal tract in open cordotomy and myelomeningocele surgery. <i>Journal of Clinical Neuroscience</i> , 2020, 74, 225-231.	1.5	2

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19	Decoding Hidden Cognitive States From Behavior and Physiology Using a Bayesian Approach. <i>Neural Computation</i> , 2019, 31, 1751-1788.	2.2	23
20	Leveraging Nonhuman Primate Multisensory Neurons and Circuits in Assessing Consciousness Theory. <i>Journal of Neuroscience</i> , 2019, 39, 7485-7500.	3.6	17
21	Intracortical neural activity distal to seizure-onset-areas predicts human focal seizures. <i>PLoS ONE</i> , 2019, 14, e0211847.	2.5	8
22	The generation and propagation of the human alpha rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23772-23782.	7.1	229
23	Caudate stimulation enhances learning. <i>Brain</i> , 2019, 142, 2930-2937.	7.6	25
24	Neural Interactions Underlying Visuomotor Associations in the Human Brain. <i>Cerebral Cortex</i> , 2019, 29, 4551-4567.	2.9	3
25	In Reply: Older Patients Have Better Pain Outcomes Following Microvascular Decompression for Trigeminal Neuralgia. <i>Neurosurgery</i> , 2019, 85, E610-E611.	1.1	0
26	Modulations in Oscillatory Activity of Globus Pallidus Internus Neurons During a Directed Hand Movement Task—A Primary Mechanism for Motor Planning. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 15.	2.5	1
27	Consistent linear and non-linear responses to invasive electrical brain stimulation across individuals and primate species with implanted electrodes. <i>Brain Stimulation</i> , 2019, 12, 877-892.	1.6	41
28	Volitional control of single-electrode high gamma local field potentials by people with paralysis. <i>Journal of Neurophysiology</i> , 2019, 121, 1428-1450.	1.8	12
29	Prolonged therapy with the anticonvulsant carbamazepine leads to increased plasma clearance of fentanyl. <i>Journal of Pharmacy and Pharmacology</i> , 2019, 71, 982-987.	2.4	12
30	Older Patients Have Better Pain Outcomes Following Microvascular Decompression for Trigeminal Neuralgia. <i>Neurosurgery</i> , 2019, 84, 116-122.	1.1	37
31	Rapid calibration of an intracortical brain-computer interface for people with tetraplegia. <i>Journal of Neural Engineering</i> , 2018, 15, 026007.	3.5	95
32	Cortical control of a tablet computer by people with paralysis. <i>PLoS ONE</i> , 2018, 13, e0204566.	2.5	108
33	Enhanced Dendritic Compartmentalization in Human Cortical Neurons. <i>Cell</i> , 2018, 175, 643-651.e14.	28.9	204
34	Stable long-term BCI-enabled communication in ALS and locked-in syndrome using LFP signals. <i>Journal of Neurophysiology</i> , 2018, 120, 343-360.	1.8	91
35	Intermittent subthalamic nucleus deep brain stimulation induces risk-averse behavior in human subjects. <i>ELife</i> , 2018, 7, .	6.0	10
36	The interactive electrode localization utility: software for automatic sorting and labeling of intracranial subdural electrodes. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1829-1837.	2.8	21

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37	Prefrontal Neurons Encode a Solution to the Credit-Assignment Problem. <i>Journal of Neuroscience</i> , 2017, 37, 6995-7007.	3.6	33
38	Surgical Treatment of Trigeminal Neuralgia. <i>Neurosurgery Clinics of North America</i> , 2017, 28, 429-438.	1.7	87
39	Structural and Functional Network Dysfunction in Parkinson Disease. <i>Radiology</i> , 2017, 285, 725-727.	7.3	8
40	Treating refractory mental illness with closed-loop brain stimulation: Progress towards a patient-specific transdiagnostic approach. <i>Experimental Neurology</i> , 2017, 287, 461-472.	4.1	94
41	Replay of large-scale spatio-temporal patterns from waking during subsequent NREM sleep in human cortex. <i>Scientific Reports</i> , 2017, 7, 17380.	3.3	43
42	Hippocampography Guides Consistent Mesial Resections in Neocortical Temporal Lobe Epilepsy. <i>Epilepsy Research &amp; Treatment</i> , 2016, 2016, 1-8.	1.4	1
43	Retrospectively supervised click decoder calibration for self-calibrating point-and-click brain-computer interfaces. <i>Journal of Physiology (Paris)</i> , 2016, 110, 382-391.	2.1	17
44	An Electroencephalography Grid with Conductive Nanoparticles in a Polymer Thick Film on an Organic Substrate Improves CT and MR Imaging. <i>Radiology</i> , 2016, 280, 595-601.	7.3	11
45	Treatment of <i>ADCY5</i> -Associated Dystonia, Chorea, and Hyperkinetic Disorders With Deep Brain Stimulation. <i>Journal of Child Neurology</i> , 2016, 31, 1027-1035.	1.4	44
46	Neuromodulation for restoring memory. <i>Neurosurgical Focus</i> , 2016, 40, E5.	2.3	30
47	Anterior temporal lobectomy for older adults with mesial temporal sclerosis. <i>Epilepsy Research</i> , 2016, 127, 358-365.	1.6	10
48	Anterior Temporal Lobectomy for Refractory Status Epilepticus in Herpes Simplex Encephalitis. <i>Neurocritical Care</i> , 2016, 25, 458-463.	2.4	14
49	Dynamics of Propofol-Induced Loss of Consciousness Across Primate Neocortex. <i>Journal of Neuroscience</i> , 2016, 36, 7718-7726.	3.6	64
50	Temporally Coordinated Deep Brain Stimulation in the Dorsal and Ventral Striatum Synergistically Enhances Associative Learning. <i>Scientific Reports</i> , 2016, 6, 18806.	3.3	16
51	Mechanisms of deep brain stimulation. <i>Journal of Neurophysiology</i> , 2016, 115, 19-38.	1.8	354
52	Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). <i>Brain Imaging and Behavior</i> , 2016, 10, 1054-1067.	2.1	115
53	Central nervous system lymphoma presenting as trigeminal neuralgia: A diagnostic challenge. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1188-1190.	1.5	11
54	Editorial: Anterior capsulotomy and deep brain stimulation. <i>Journal of Neurosurgery</i> , 2015, 122, 1026-1027.	1.6	0

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55	Reprint of "Non-causal spike filtering improves decoding of movement intention for intracortical BCIs". Journal of Neuroscience Methods, 2015, 244, 94-103.	2.5	10
56	A Randomized Sham-Controlled Trial of Deep Brain Stimulation of the Ventral Capsule/Ventral Striatum for Chronic Treatment-Resistant Depression. Biological Psychiatry, 2015, 78, 240-248.	1.3	415
57	Neuroanatomical Characteristics Associated With Response to Dorsal Anterior Cingulotomy for Obsessive-Compulsive Disorder. JAMA Psychiatry, 2015, 72, 127.	11.0	45
58	A Novel Brain Stimulation Technology Provides Compatibility with MRI. Scientific Reports, 2015, 5, 9805.	3.3	61
59	Intra-stimulation discharges: An overlooked cortical electrographic entity triggered by direct electrical stimulation. Clinical Neurophysiology, 2015, 126, 882-888.	1.5	16
60	A systematic approach to selecting task relevant neurons. Journal of Neuroscience Methods, 2015, 245, 156-168.	2.5	4
61	Sharp Wave Ripples during Visual Exploration in the Primate Hippocampus. Journal of Neuroscience, 2015, 35, 14771-14782.	3.6	67
62	Frequency-Dependent Representation of Reinforcement-Related Information in the Human Medial and Lateral Prefrontal Cortex. Journal of Neuroscience, 2015, 35, 15827-15836.	3.6	47
63	Virtual typing by people with tetraplegia using a self-calibrating intracortical brain-computer interface. Science Translational Medicine, 2015, 7, 313ra179.	12.4	249
64	Neural population dynamics in human motor cortex during movements in people with ALS. ELife, 2015, 4, e07436.	6.0	60
65	An Open Source 3-D Printed Modular Micro-Drive System for Acute Neurophysiology. PLoS ONE, 2014, 9, e94262.	2.5	6
66	Reward and reinforcement activity in the nucleus accumbens during learning. Frontiers in Behavioral Neuroscience, 2014, 8, 114.	2.0	22
67	Speech-Specific Tuning of Neurons in Human Superior Temporal Gyrus. Cerebral Cortex, 2014, 24, 2679-2693.	2.9	121
68	Lesion analysis for cingulotomy and limbic leucotomy: comparison and correlation with clinical outcomes. Journal of Neurosurgery, 2014, 120, 152-163.	1.6	42
69	Utility of foramen ovale electrodes in mesial temporal lobe epilepsy. Epilepsia, 2014, 55, 713-724.	5.1	35
70	Three-dimensional brain surface visualization for epilepsy surgery of focal cortical dysplasia. Journal of Clinical Neuroscience, 2014, 21, 1230-1232.	1.5	2
71	Reliability of directional information in unsorted spikes and local field potentials recorded in human motor cortex. Journal of Neural Engineering, 2014, 11, 046007.	3.5	92
72	Non-causal spike filtering improves decoding of movement intention for intracortical BCIs. Journal of Neuroscience Methods, 2014, 236, 58-67.	2.5	28

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73	Consensus on guidelines for stereotactic neurosurgery for psychiatric disorders. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 1003-1008.	1.9	150
74	Electrical Stimulation-Evoked Dopamine Release in the Primate Striatum. Stereotactic and Functional Neurosurgery, 2013, 91, 355-363.	1.5	32
75	A point process approach to identifying and tracking transitions in neural spiking dynamics in the subthalamic nucleus of Parkinson's patients. Chaos, 2013, 23, 046102.	2.5	10
76	Intra-day signal instabilities affect decoding performance in an intracortical neural interface system. Journal of Neural Engineering, 2013, 10, 036004.	3.5	180
77	Correlation and Causation: Systems Level Understanding of Decision-Making Signals at the Single-Neuronal Level in the Human Brain. FASEB Journal, 2013, 27, 1124.1.	0.5	0
78	Spatiotemporal dynamics of neocortical excitation and inhibition during human sleep. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1731-1736.	7.1	166
79	Rapid fragmentation of neuronal networks at the onset of propofol-induced unconsciousness. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3377-86.	7.1	366
80	Individualized localization and cortical surface-based registration of intracranial electrodes. NeuroImage, 2012, 59, 3563-3570.	4.2	213
81	Mechanisms of deep brain stimulation for obsessive compulsive disorder: effects upon cells and circuits. Frontiers in Integrative Neuroscience, 2012, 6, 29.	2.1	110
82	Heterogeneous neuronal firing patterns during interictal epileptiform discharges in the human cortex. Brain, 2010, 133, 1668-1681.	7.6	168
83	Using point process models to determine the impact of visual cues on basal ganglia activity and behavior of Parkinson's patients. , 2009, , .		2
84	Case 21-2006. New England Journal of Medicine, 2006, 355, 183-188.	27.0	10
85	Surgery for Parkinson disease in the United States, 1996 to 2000: practice patterns, short-term outcomes, and hospital charges in a nationwide sample. Journal of Neurosurgery, 2003, 99, 863-871.	1.6	75
86	Distinct Nature of Directional Signals Among Parietal Cortical Areas During Visual Guidance. Journal of Neurophysiology, 2002, 88, 1777-1790.	1.8	43
87	Erratum. Journal of Neurosurgery, 2002, 96, 162.	1.6	60
88	Dissociation of visual, motor and predictive signals in parietal cortex during visual guidance. Nature Neuroscience, 1999, 2, 88-93.	14.8	234