

# Ashesh D Mehta

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

7,040  
citations

159585

30  
h-index

144013

57  
g-index

74  
all docs

74  
docs citations

74  
times ranked

7500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entrainment of Neuronal Oscillations as a Mechanism of Attentional Selection. <i>Science</i> , 2008, 320, 110-113.	12.6	1,474
2	Vagus nerve stimulation inhibits cytokine production and attenuates disease severity in rheumatoid arthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8284-8289.	7.1	742
3	Mechanisms Underlying Selective Neuronal Tracking of Attended Speech at a "Cocktail Party". <i>Neuron</i> , 2013, 77, 980-991.	8.1	732
4	Immediate neurophysiological effects of transcranial electrical stimulation. <i>Nature Communications</i> , 2018, 9, 5092.	12.8	338
5	Spatiotemporal structure of intracranial electric fields induced by transcranial electric stimulation in humans and nonhuman primates. <i>Scientific Reports</i> , 2016, 6, 31236.	3.3	256
6	Neural Dynamics and the Fundamental Mechanisms of Event-related Brain Potentials. <i>Cerebral Cortex</i> , 2004, 14, 476-483.	2.9	234
7	Tuning of the Human Neocortex to the Temporal Dynamics of Attended Events. <i>Journal of Neuroscience</i> , 2011, 31, 3176-3185.	3.6	234
8	Neurophysiological Investigation of Spontaneous Correlated and Anticorrelated Fluctuations of the BOLD Signal. <i>Journal of Neuroscience</i> , 2013, 33, 6333-6342.	3.6	211
9	Breathing above the brain stem: volitional control and attentional modulation in humans. <i>Journal of Neurophysiology</i> , 2018, 119, 145-159.	1.8	208
10	iELVis: An open source MATLAB toolbox for localizing and visualizing human intracranial electrode data. <i>Journal of Neuroscience Methods</i> , 2017, 281, 40-48.	2.5	177
11	Mapping human brain networks with cortico-cortical evoked potentials. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130528.	4.0	165
12	Intrinsic functional architecture predicts electrically evoked responses in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10308-10313.	7.1	161
13	Hippocampal sharp-wave ripples linked to visual episodic recollection in humans. <i>Science</i> , 2019, 365, .	12.6	149
14	Towards reconstructing intelligible speech from the human auditory cortex. <i>Scientific Reports</i> , 2019, 9, 874.	3.3	140
15	Corticocortical Evoked Potentials Reveal Projectors and Integrators in Human Brain Networks. <i>Journal of Neuroscience</i> , 2014, 34, 9152-9163.	3.6	107
16	Spectrotemporal modulation provides a unifying framework for auditory cortical asymmetries. <i>Nature Human Behaviour</i> , 2019, 3, 393-405.	12.0	100
17	Complication avoidance in laser interstitial thermal therapy: lessons learned. <i>Journal of Neurosurgery</i> , 2017, 126, 1238-1245.	1.6	95
18	Seeing Scenes: Topographic Visual Hallucinations Evoked by Direct Electrical Stimulation of the Parahippocampal Place Area. <i>Journal of Neuroscience</i> , 2014, 34, 5399-5405.	3.6	91

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19	Neural decoding of attentional selection in multi-speaker environments without access to clean sources. <i>Journal of Neural Engineering</i> , 2017, 14, 056001.	3.5	91
20	Hierarchical Encoding of Attended Auditory Objects in Multi-talker Speech Perception. <i>Neuron</i> , 2019, 104, 1195-1209.e3.	8.1	90
21	On the importance of precise electrode placement for targeted transcranial electric stimulation. <i>NeuroImage</i> , 2018, 181, 560-567.	4.2	87
22	Evaluation of cortical local field potential diffusion in stereotactic electro-encephalography recordings: A glimpse on white matter signal. <i>NeuroImage</i> , 2017, 147, 219-232.	4.2	82
23	Convergent evolution of face spaces across human face-selective neuronal groups and deep convolutional networks. <i>Nature Communications</i> , 2019, 10, 4934.	12.8	76
24	Evoked effective connectivity of the human neocortex. <i>Human Brain Mapping</i> , 2014, 35, 5736-5753.	3.6	72
25	Exemplar Selectivity Reflects Perceptual Similarities in the Human Fusiform Cortex. <i>Cerebral Cortex</i> , 2014, 24, 1879-1893.	2.9	67
26	Low-Frequency Cortical Oscillations Entrain to Subthreshold Rhythmic Auditory Stimuli. <i>Journal of Neuroscience</i> , 2017, 37, 4903-4912.	3.6	65
27	Cortical encoding of melodic expectations in human temporal cortex. <i>ELife</i> , 2020, 9, .	6.0	62
28	Induction and Quantification of Excitability Changes in Human Cortical Networks. <i>Journal of Neuroscience</i> , 2018, 38, 5384-5398.	3.6	61
29	Adaptation of the human auditory cortex to changing background noise. <i>Nature Communications</i> , 2019, 10, 2509.	12.8	59
30	Speaker-independent auditory attention decoding without access to clean speech sources. <i>Science Advances</i> , 2019, 5, eaav6134.	10.3	55
31	Estimating and interpreting nonlinear receptive field of sensory neural responses with deep neural network models. <i>ELife</i> , 2020, 9, .	6.0	46
32	Human intracranial recordings link suppressed transients rather than 'filling-in' to perceptual continuity across blinks. <i>ELife</i> , 2016, 5, .	6.0	40
33	Crossmodal Phase Reset and Evoked Responses Provide Complementary Mechanisms for the Influence of Visual Speech in Auditory Cortex. <i>Journal of Neuroscience</i> , 2020, 40, 8530-8542.	3.6	33
34	Tuning face perception with electrical stimulation of the fusiform gyrus. <i>Human Brain Mapping</i> , 2017, 38, 2830-2842.	3.6	32
35	Intracortical Dynamics Underlying Repetitive Stimulation Predicts Changes in Network Connectivity. <i>Journal of Neuroscience</i> , 2019, 39, 6122-6135.	3.6	32
36	The Hippocampus and Amygdala Are Integrators of Neocortical Influence: A CorticoCortical Evoked Potential Study. <i>Brain Connectivity</i> , 2017, 7, 648-660.	1.7	30

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37	Brain-informed speech separation (BISS) for enhancement of target speaker in multitalker speech perception. <i>NeuroImage</i> , 2020, 223, 117282.	4.2	30
38	Invariant Temporal Dynamics Underlie Perceptual Stability in Human Visual Cortex. <i>Current Biology</i> , 2017, 27, 155-165.	3.9	28
39	Clinical utility of functional magnetic resonance imaging for brain mapping in epilepsy surgery. <i>Epilepsy Research</i> , 2010, 89, 126-132.	1.6	25
40	Neuronal baseline shifts underlying boundary setting during free recall. <i>Nature Communications</i> , 2017, 8, 1301.	12.8	25
41	Combining task-evoked and spontaneous activity to improve pre-operative brain mapping with fMRI. <i>NeuroImage</i> , 2016, 124, 714-723.	4.2	24
42	Joint Representation of Spatial and Phonetic Features in the Human Core Auditory Cortex. <i>Cell Reports</i> , 2018, 24, 2051-2062.e2.	6.4	23
43	Functional characterization of human Heschl's gyrus in response to natural speech. <i>NeuroImage</i> , 2021, 235, 118003.	4.2	19
44	Medial prefrontal cortex supports perceptual memory. <i>Current Biology</i> , 2018, 28, R1094-R1095.	3.9	18
45	Validation of corpus callosotomy after laser interstitial thermal therapy: a multimodal approach. <i>Journal of Neurosurgery</i> , 2019, 131, 1095-1105.	1.6	18
46	Evoking highly focal percepts in the fingertips through targeted stimulation of sulcal regions of the brain for sensory restoration. <i>Brain Stimulation</i> , 2021, 14, 1184-1196.	1.6	16
47	Face-Selective Units in Human Ventral Temporal Cortex Reactivate during Free Recall. <i>Journal of Neuroscience</i> , 2021, 41, 3386-3399.	3.6	16
48	Increasing suppression of saccade-related transients along the human visual hierarchy. <i>ELife</i> , 2017, 6, .	6.0	16
49	Intracranial recordings reveal transient response dynamics during information maintenance in human cerebral cortex. <i>Human Brain Mapping</i> , 2015, 36, 3988-4003.	3.6	15
50	NAPLib: An open source toolbox for real-time and offline Neural Acoustic Processing. , 2017, 2017, 846-850.		13
51	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. <i>Bioelectronic Medicine</i> , 2021, 7, 14.	2.3	11
52	The Noisy Brain: Power of Resting-State Fluctuations Predicts Individual Recognition Performance. <i>Cell Reports</i> , 2019, 29, 3775-3784.e4.	6.4	10
53	The Fourth Bioelectronic Medicine Summit –Technology Targeting Molecular Mechanisms– current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021, 7, 7.	2.3	5
54	Decoding Neural Activity in Sulcal and White Matter Areas of the Brain to Accurately Predict Individual Finger Movement and Tactile Stimuli of the Human Hand. <i>Frontiers in Neuroscience</i> , 2021, 15, 699631.	2.8	5

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55	Learning Speech Production and Perception through Sensorimotor Interactions. <i>Cerebral Cortex Communications</i> , 2021, 2, tgaa091.	1.6	5
56	Inducing neuroplasticity through intracranial $\hat{I}$ -burst stimulation in the human sensorimotor cortex. <i>Journal of Neurophysiology</i> , 2021, 126, 1723-1739.	1.8	4
57	Intracranial EEG Biomarkers for Seizure Lateralization in Rapidly-Bisynchronous Epilepsy After Laser Corpus Callosotomy. <i>Frontiers in Neurology</i> , 2021, 12, 696492.	2.4	1
58	Improved Speech Hearing in Noise with Invasive Electrical Brain Stimulation. <i>Journal of Neuroscience</i> , 2022, 42, 3648-3658.	3.6	1