

# Anthony G Hudetz

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

3,832  
citations

172457

29  
h-index

175258

52  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consciousness and Anesthesia. <i>Science</i> , 2008, 322, 876-880.	12.6	1,084
2	General Anesthesia and Human Brain Connectivity. <i>Brain Connectivity</i> , 2012, 2, 291-302.	1.7	227
3	Dynamic Repertoire of Intrinsic Brain States Is Reduced in Propofol-Induced Unconsciousness. <i>Brain Connectivity</i> , 2015, 5, 10-22.	1.7	130
4	Differential Effects of Deep Sedation with Propofol on the Specific and Nonspecific Thalamocortical Systems. <i>Anesthesiology</i> , 2013, 118, 59-69.	2.5	127
5	Functional and Topological Conditions for Explosive Synchronization Develop in Human Brain Networks with the Onset of Anesthetic-Induced Unconsciousness. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 1.	2.1	125
6	Temporal circuit of macroscale dynamic brain activity supports human consciousness. <i>Science Advances</i> , 2020, 6, eaaz0087.	10.3	119
7	Neural Correlates of Unconsciousness in Large-Scale Brain Networks. <i>Trends in Neurosciences</i> , 2018, 41, 150-160.	8.6	115
8	Differential Role of Prefrontal and Parietal Cortices in Controlling Level of Consciousness. <i>Current Biology</i> , 2018, 28, 2145-2152.e5.	3.9	113
9	Propofol disrupts functional interactions between sensory and high-order processing of auditory verbal memory. <i>Human Brain Mapping</i> , 2012, 33, 2487-2498.	3.6	111
10	Disconnecting Consciousness: Is There a Common Anesthetic End Point?. <i>Anesthesia and Analgesia</i> , 2016, 123, 1228-1240.	2.2	101
11	Bottom-Up and Top-Down Mechanisms of General Anesthetics Modulate Different Dimensions of Consciousness. <i>Frontiers in Neural Circuits</i> , 2017, 11, 44.	2.8	91
12	Cholinergic Reversal of Isoflurane Anesthesia in Rats as Measured by Cross-approximate Entropy of the Electroencephalogram. <i>Anesthesiology</i> , 2003, 99, 1125-1131.	2.5	80
13	Volatile Anesthetics Enhance Flash-induced $\beta$ Oscillations in Rat Visual Cortex. <i>Anesthesiology</i> , 2005, 102, 937-947.	2.5	79
14	Propofol anesthesia reduces Lempel-Ziv complexity of spontaneous brain activity in rats. <i>Neuroscience Letters</i> , 2016, 628, 132-135.	2.1	78
15	Level of Consciousness Is Dissociable from Electroencephalographic Measures of Cortical Connectivity, Slow Oscillations, and Complexity. <i>Journal of Neuroscience</i> , 2020, 40, 605-618.	3.6	72
16	Burst Activation of the Cerebral Cortex by Flash Stimuli during Isoflurane Anesthesia in Rats. <i>Anesthesiology</i> , 2007, 107, 983-991.	2.5	70
17	Timescales of Intrinsic BOLD Signal Dynamics and Functional Connectivity in Pharmacologic and Neuropathologic States of Unconsciousness. <i>Journal of Neuroscience</i> , 2018, 38, 2304-2317.	3.6	66
18	Modeling Resting-State Functional Networks When the Cortex Falls Asleep: Local and Global Changes. <i>Cerebral Cortex</i> , 2014, 24, 3180-3194.	2.9	65

#	ARTICLE	IF	CITATIONS
19	Desflurane Selectively Suppresses Long-latency Cortical Neuronal Response to Flash in the Rat. <i>Anesthesiology</i> , 2009, 111, 231-239.	2.5	65
20	Suppressing consciousness: Mechanisms of general anesthesia. <i>Seminars in Anesthesia</i> , 2006, 25, 196-204.	0.3	64
21	It is time to combine the two main traditions in the research on the neural correlates of consciousness: C = L " D. <i>Frontiers in Psychology</i> , 2014, 5, 940.	2.1	60
22	Differential Effects of Isoflurane on High-frequency and Low-frequency $\beta$ Oscillations in the Cerebral Cortex and Hippocampus in Freely Moving Rats. <i>Anesthesiology</i> , 2011, 114, 588-595.	2.5	60
23	Estimating the Integrated Information Measure Phi from High-Density Electroencephalography during States of Consciousness in Humans. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 42.	2.0	56
24	Anterior insula regulates brain network transitions that gate conscious access. <i>Cell Reports</i> , 2021, 35, 109081.	6.4	46
25	Effect of volatile anesthetics on interhemispheric EEG cross-approximate entropy in the rat. <i>Brain Research</i> , 2002, 954, 123-131.	2.2	45
26	Altered Global Brain Signal during Physiologic, Pharmacologic, and Pathologic States of Unconsciousness in Humans and Rats. <i>Anesthesiology</i> , 2020, 132, 1392-1406.	2.5	45
27	Propofol attenuates low-frequency fluctuations of resting-state fMRI BOLD signal in the anterior frontal cortex upon loss of consciousness. <i>NeuroImage</i> , 2017, 147, 295-301.	4.2	40
28	Scale-Free Functional Connectivity of the Brain Is Maintained in Anesthetized Healthy Participants but Not in Patients with Unresponsive Wakefulness Syndrome. <i>PLoS ONE</i> , 2014, 9, e92182.	2.5	39
29	Disrupted neural variability during propofol-induced sedation and unconsciousness. <i>Human Brain Mapping</i> , 2018, 39, 4533-4544.	3.6	37
30	Monosynaptic functional connectivity in cerebral cortex during wakefulness and under graded levels of anesthesia. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 90.	2.1	34
31	Supraspinal Anesthesia. <i>Anesthesiology</i> , 2006, 105, 764-778.	2.5	33
32	Are We Unconscious During General Anesthesia?. <i>International Anesthesiology Clinics</i> , 2008, 46, 25-42.	0.8	31
33	Pharmacologically informed machine learning approach for identifying pathological states of unconsciousness via resting-state fMRI. <i>NeuroImage</i> , 2020, 206, 116316.	4.2	31
34	Brain imaging reveals covert consciousness during behavioral unresponsiveness induced by propofol. <i>Scientific Reports</i> , 2018, 8, 13195.	3.3	27
35	Higher-order sensorimotor circuit of the brain's global network supports human consciousness. <i>NeuroImage</i> , 2021, 231, 117850.	4.2	23
36	The Electrocortical Effects of Enflurane: Experiment and Theory. <i>Anesthesia and Analgesia</i> , 2009, 109, 1253-1262.	2.2	21

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37	Increased precuneus connectivity during propofol sedation. <i>Neuroscience Letters</i> , 2014, 561, 18-23.	2.1	21
38	Repertoire of mesoscopic cortical activity is not reduced during anesthesia. <i>Neuroscience</i> , 2016, 339, 402-417.	2.3	21
39	Asymmetric neural dynamics characterize loss and recovery of consciousness. <i>NeuroImage</i> , 2021, 236, 118042.	4.2	20
40	Fine-Grained Parcellation of Brain Connectivity Improves Differentiation of States of Consciousness During Graded Propofol Sedation. <i>Brain Connectivity</i> , 2017, 7, 373-381.	1.7	17
41	Propofol Sedation Alters Perceptual and Cognitive Functions in Healthy Volunteers as Revealed by Functional Magnetic Resonance Imaging. <i>Anesthesiology</i> , 2019, 131, 254-265.	2.5	17
42	Regional entropy of functional imaging signals varies differently in sensory and cognitive systems during propofol-modulated loss and return of behavioral responsiveness. <i>Brain Imaging and Behavior</i> , 2019, 13, 514-525.	2.1	16
43	State-Dependent Cortical Unit Activity Reflects Dynamic Brain State Transitions in Anesthesia. <i>Journal of Neuroscience</i> , 2020, 40, 9440-9454.	3.6	16
44	Restoring Susceptibility Induced MRI Signal Loss in Rat Brain at 9.4 T: A Step towards Whole Brain Functional Connectivity Imaging. <i>PLoS ONE</i> , 2015, 10, e0119450.	2.5	15
45	Desflurane Anesthesia Alters Cortical Layer-specific Hierarchical Interactions in Rat Cerebral Cortex. <i>Anesthesiology</i> , 2020, 132, 1080-1090.	2.5	15
46	Critical Changes in Cortical Neuronal Interactions in Anesthetized and Awake Rats. <i>Anesthesiology</i> , 2015, 123, 171-180.	2.5	14
47	Retino-cortical stimulus frequency-dependent gamma coupling: evidence and functional implications of oscillatory potentials. <i>Physiological Reports</i> , 2016, 4, e12986.	1.7	14
48	Anterior precuneus related to the recovery of consciousness. <i>NeuroImage: Clinical</i> , 2022, 33, 102951.	2.7	12
49	Feedback suppression in anesthesia. Is it reversible?. <i>Consciousness and Cognition</i> , 2009, 18, 1079-1081.	1.5	11
50	Differential Effect of Anesthesia on Visual Cortex Neurons with Diverse Population Coupling. <i>Neuroscience</i> , 2021, 458, 108-119.	2.3	9
51	Consciousness and Anesthesia. <i>Advances in Anesthesia</i> , 2012, 30, 13-27.	0.9	2
52	Network Model With Reduced Metabolic Rate Predicts Spatial Synchrony of Neuronal Activity. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 738362.	2.1	2
53	Modeling cortical synaptic effects of anesthesia and their cholinergic reversal. <i>PLoS Computational Biology</i> , 2022, 18, e1009743.	3.2	0