# Emery N Brown

#### List of Publications by Citations

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10,122 134 47 100 h-index g-index citations papers 6.38 12,831 6.9 158 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
134	Sensitivity of the human circadian pacemaker to nocturnal light: melatonin phase resetting and suppression. <i>Journal of Physiology</i> , <b>2000</b> , 526 Pt 3, 695-702	3.9	780
133	General anesthesia, sleep, and coma. New England Journal of Medicine, 2010, 363, 2638-50	59.2	721
132	A point process framework for relating neural spiking activity to spiking history, neural ensemble, and extrinsic covariate effects. <i>Journal of Neurophysiology</i> , <b>2005</b> , 93, 1074-89	3.2	702
131	Multiple neural spike train data analysis: state-of-the-art and future challenges. <i>Nature Neuroscience</i> , <b>2004</b> , 7, 456-61	25.5	597
130	Electroencephalogram signatures of loss and recovery of consciousness from propofol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1142-51	11.5	444
129	A statistical paradigm for neural spike train decoding applied to position prediction from ensemble firing patterns of rat hippocampal place cells. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 7411-25	6.6	397
128	The time-rescaling theorem and its application to neural spike train data analysis. <i>Neural Computation</i> , <b>2002</b> , 14, 325-46	2.9	363
127	Clinical Electroencephalography for Anesthesiologists: Part I: Background and Basic Signatures. <i>Anesthesiology</i> , <b>2015</b> , 123, 937-60	4.3	334
126	General anesthesia and altered states of arousal: a systems neuroscience analysis. <i>Annual Review of Neuroscience</i> , <b>2011</b> , 34, 601-28	17	298
125	Rapid fragmentation of neuronal networks at the onset of propofol-induced unconsciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E3377-86	11.5	278
124	Thalamocortical model for a propofol-induced alpha-rhythm associated with loss of consciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 22665-70	11.5	242
123	A point-process model of human heartbeat intervals: new definitions of heart rate and heart rate variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 288, H424-35	5.2	186
122	Multi-sensory Gamma Stimulation Ameliorates Alzheimer's-Associated Pathology and Improves Cognition. <i>Cell</i> , <b>2019</b> , 177, 256-271.e22	56.2	181
121	State-dependent architecture of thalamic reticular subnetworks. <i>Cell</i> , <b>2014</b> , 158, 808-821	56.2	174
120	Tracking brain states under general anesthesia by using global coherence analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 8832-7	11.5	168
119	Optogenetic activation of cholinergic neurons in the PPT or LDT induces REM sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 584-9	11.5	167
118	A review of multitaper spectral analysis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 1555-64	5	145

## (2008-2014)

117	Effects of sevoflurane and propofol on frontal electroencephalogram power and coherence. <i>Anesthesiology</i> , <b>2014</b> , 121, 990-8	4.3	142
116	Multimodal General Anesthesia: Theory and Practice. <i>Anesthesia and Analgesia</i> , <b>2018</b> , 127, 1246-1258	3.9	134
115	Methylphenidate actively induces emergence from general anesthesia. <i>Anesthesiology</i> , <b>2011</b> , 115, 791-	8433	127
114	Optogenetic activation of dopamine neurons in the ventral tegmental area induces reanimation from general anesthesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12826-12831	11.5	124
113	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 370,	5.8	119
112	Potential network mechanisms mediating electroencephalographic beta rhythm changes during propofol-induced paradoxical excitation. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 13488-504	6.6	118
111	Corticoamygdala Transfer of Socially Derived Information Gates Observational Learning. <i>Cell</i> , <b>2018</b> , 173, 1329-1342.e18	56.2	117
110	The parathyroid hormone circadian rhythm is truly endogenousa general clinical research center study. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1997</b> , 82, 281-6	5.6	106
109	Thalamocortical mechanisms for the anteriorization of Irhythms during propofol-induced unconsciousness. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 11070-5	6.6	105
108	Electrical stimulation of the ventral tegmental area induces reanimation from general anesthesia. <i>Anesthesiology</i> , <b>2014</b> , 121, 311-9	4.3	93
107	Electroencephalogram signatures of ketamine anesthesia-induced unconsciousness. <i>Clinical Neurophysiology</i> , <b>2016</b> , 127, 2414-22	4.3	88
106	Electrophysiological Source Imaging: A Noninvasive Window to Brain Dynamics. <i>Annual Review of Biomedical Engineering</i> , <b>2018</b> , 20, 171-196	12	87
105	Neural oscillations demonstrate that general anesthesia and sedative states are neurophysiologically distinct from sleep. <i>Current Opinion in Neurobiology</i> , <b>2017</b> , 44, 178-185	7.6	85
104	Disruption of thalamic functional connectivity is a neural correlate of dexmedetomidine-induced unconsciousness. <i>ELife</i> , <b>2014</b> , 3, e04499	8.9	85
103	Active emergence from propofol general anesthesia is induced by methylphenidate. <i>Anesthesiology</i> , <b>2012</b> , 116, 998-1005	4.3	85
102	Analysis of heartbeat dynamics by point process adaptive filtering. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2006</b> , 53, 4-12	5	84
101	A transition in brain state during propofol-induced unconsciousness. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 839-45	6.6	82
100	Analysis of between-trial and within-trial neural spiking dynamics. <i>Journal of Neurophysiology</i> , <b>2008</b> , 99, 2672-93	3.2	81

99	Rapid and Sustained Reductions in Current Suicidal Ideation Following Repeated Doses of Intravenous Ketamine: Secondary Analysis of an Open-Label Study. <i>Journal of Clinical Psychiatry</i> , <b>2016</b> , 77, e719-25	4.6	81
98	Activation of D1 dopamine receptors induces emergence from isoflurane general anesthesia. <i>Anesthesiology</i> , <b>2013</b> , 118, 30-9	4.3	77
97	What Is Statistics?. American Statistician, 2009, 63, 105-110	5	74
96	Thalamocortical synchronization during induction and emergence from propofol-induced unconsciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E6660-E6668	11.5	72
95	Age-dependent electroencephalogram (EEG) patterns during sevoflurane general anesthesia in infants. <i>ELife</i> , <b>2015</b> , 4, e06513	8.9	71
94	Modeling the dynamical effects of anesthesia on brain circuits. <i>Current Opinion in Neurobiology</i> , <b>2014</b> , 25, 116-22	7.6	70
93	Repeat-dose ketamine augmentation for treatment-resistant depression with chronic suicidal ideation: A randomized, double blind, placebo controlled trial. <i>Journal of Affective Disorders</i> , <b>2019</b> , 243, 516-524	6.6	68
92	Ketamine augmentation for outpatients with treatment-resistant depression: Preliminary evidence for two-step intravenous dose escalation. <i>Australian and New Zealand Journal of Psychiatry</i> , <b>2017</b> , 51, 55-64	2.6	63
91	Analysis of Neural Data. Springer Series in Statistics, 2014,	0.3	55
90	Dexmedetomidine Disrupts the Local and Global Efficiencies of Large-scale Brain Networks. <i>Anesthesiology</i> , <b>2017</b> , 126, 419-430	4.3	51
89	Spatiotemporal Dynamics of Dexmedetomidine-Induced Electroencephalogram Oscillations. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163431	3.7	48
88	Convergence and Stability of a Class of Iteratively Re-weighted Least Squares Algorithms for Sparse Signal Recovery in the Presence of Noise. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 62, 183-1	9 <del>4</del> .8	47
87	Dexmedetomidine promotes biomimetic non-rapid eye movement stage 3 sleep in humans: A pilot study. <i>Clinical Neurophysiology</i> , <b>2018</b> , 129, 69-78	4.3	46
86	Burst suppression probability algorithms: state-space methods for tracking EEG burst suppression. Journal of Neural Engineering, 2013, 10, 056017	5	46
85	Pharmacological Modulation of Noradrenergic Arousal Circuitry Disrupts Functional Connectivity of the Locus Ceruleus in Humans. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 6938-6945	6.6	44
84	Dextroamphetamine (but Not Atomoxetine) Induces Reanimation from General Anesthesia: Implications for the Roles of Dopamine and Norepinephrine in Active Emergence. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131914	3.7	44
83	The aging brain and anesthesia. Current Opinion in Anaesthesiology, 2013, 26, 414-9	2.9	41
82	Toward an In Vivo Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. <i>Brain Connectivity</i> , <b>2015</b> , 5, 597-607	2.7	39

81	Nitrous oxide-induced slow and delta oscillations. Clinical Neurophysiology, 2016, 127, 556-564	4.3	37
80	Propofol and sevoflurane induce distinct burst suppression patterns in rats. <i>Frontiers in Systems</i> Neuroscience, <b>2014</b> , 8, 237	3.5	36
79	A statistical model of the human core-temperature circadian rhythm. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 279, E669-83	6	36
78	Dynamics of Propofol-Induced Loss of Consciousness Across Primate Neocortex. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 7718-26	6.6	34
77	Deconvolution of serum cortisol levels by using compressed sensing. PLoS ONE, 2014, 9, e85204	3.7	34
76	Analysis and design of behavioral experiments to characterize population learning. <i>Journal of Neurophysiology</i> , <b>2005</b> , 93, 1776-92	3.2	34
75	The Role of Glutamatergic and Dopaminergic Neurons in the Periaqueductal Gray/Dorsal Raphe: Separating Analgesia and Anxiety. <i>ENeuro</i> , <b>2019</b> , 6,	3.9	33
74	In vivo functional connectome of human brainstem nuclei of the ascending arousal, autonomic, and motor systems by high spatial resolution 7-Tesla fMRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 451-62	2.8	33
73	Bayesian decoding of neural spike trains. Annals of the Institute of Statistical Mathematics, 2010, 62, 37	-5 <del>9</del>	31
7²	Electrical stimulation of the parabrachial nucleus induces reanimation from isoflurane general anesthesia. <i>Behavioural Brain Research</i> , <b>2016</b> , 306, 20-5	3.4	30
71	GABAA circuit mechanisms are associated with ether anesthesia-induced unconsciousness. <i>Clinical Neurophysiology</i> , <b>2016</b> , 127, 2472-81	4.3	30
70	A Subspace Pursuit-based Iterative Greedy Hierarchical solution to the neuromagnetic inverse problem. <i>NeuroImage</i> , <b>2014</b> , 87, 427-43	7.9	29
69	Measuring the signal-to-noise ratio of a neuron. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7141-6	11.5	27
68	Discrete- and continuous-time probabilistic models and algorithms for inferring neuronal UP and DOWN states. <i>Neural Computation</i> , <b>2009</b> , 21, 1797-862	2.9	27
67	Characterization of fear conditioning and fear extinction by analysis of electrodermal activity.  Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE  Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7814-8	0.9	26
66	Thalamocortical control of propofol phase-amplitude coupling. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005879	5	23
65	Multi-neuron intracellular recording in vivo via interacting autopatching robots. ELife, 2018, 7,	8.9	23
64	Reference-free removal of EEG-fMRI ballistocardiogram artifacts with harmonic regression.  NeuroImage, 2016, 128, 398-412	7.9	22

63	Controversy in statistical analysis of functional magnetic resonance imaging data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3368-E3369	11.5	22
62	Disruption of the ascending arousal network in acute traumatic disorders of consciousness. <i>Neurology</i> , <b>2019</b> , 93, e1281-e1287	6.5	22
61	Lack of Responsiveness during the Onset and Offset of Sevoflurane Anesthesia Is Associated with Decreased Awake-Alpha Oscillation Power. <i>Frontiers in Systems Neuroscience</i> , <b>2017</b> , 11, 38	3.5	22
60	Cerebral Microvascular Injury in Severe COVID-19 <b>2020</b> ,		22
59	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7T MRI. <i>NeuroImage</i> , <b>2018</b> , 170, 222-230	7.9	21
58	The human burst suppression electroencephalogram of deep hypothermia. <i>Clinical Neurophysiology</i> , <b>2015</b> , 126, 1901-1914	4.3	20
57	State-space multitaper time-frequency analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5-E14	11.5	20
56	A Pharmacokinetic Model of a Tissue Implantable Cortisol Sensor. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3004-3015	10.1	20
55	Robust spectrotemporal decomposition by iteratively reweighted least squares. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5336-45	11.5	20
54	Delta oscillations phase limit neural activity during sevoflurane anesthesia. <i>Communications Biology</i> , <b>2019</b> , 2, 415	6.7	19
53	Sevoflurane Induces Coherent Slow-Delta Oscillations in Rats. Frontiers in Neural Circuits, 2017, 11, 36	3.5	18
52	Low Frontal Alpha Power Is Associated With the Propensity for Burst Suppression: An Electroencephalogram Phenotype for a "Vulnerable Brain". <i>Anesthesia and Analgesia</i> , <b>2020</b> , 131, 1529-1	1 <i>5</i> 39	18
51	Accurate, fast, data efficient and interpretable glaucoma diagnosis with automated spatial analysis of the whole cup to disc profile. <i>PLoS ONE</i> , <b>2019</b> , 14, e0209409	3.7	16
50	An optimization formulation for characterization of pulsatile cortisol secretion. <i>Frontiers in Neuroscience</i> , <b>2015</b> , 9, 228	5.1	16
49	Model-based physiological noise removal in fast fMRI. <i>NeuroImage</i> , <b>2020</b> , 205, 116231	7.9	16
48	A parallel point-process filter for estimation of goal-directed movements from neural signals 2010,		14
47	Minimizing ICU Neurological Dysfunction with Dexmedetomidine-induced Sleep (MINDDS): protocol for a randomised, double-blind, parallel-arm, placebo-controlled trial. <i>BMJ Open</i> , <b>2018</b> , 8, e020	)3 <sup>3</sup> 16	13
46	A transient cortical state with sleep-like sensory responses precedes emergence from general anesthesia in humans. <i>ELife</i> , <b>2018</b> , 7,	8.9	13

## (2015-2014)

45	Algorithms for the analysis of ensemble neural spiking activity using simultaneous-event multivariate point-process models. <i>Frontiers in Computational Neuroscience</i> , <b>2014</b> , 8, 6	3.5	12
44	Statistical modeling of behavioral dynamics during propofol-induced loss of consciousness. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 227, 65-74	3	11
43	Neural effects of propofol-induced unconsciousness and its reversal using thalamic stimulation. <i>ELife</i> , <b>2021</b> , 10,	8.9	11
42	Quantitative Electroencephalogram Trends Predict Recovery in Hypoxic-Ischemic Encephalopathy. <i>Critical Care Medicine</i> , <b>2019</b> , 47, 1416-1423	1.4	11
41	Application of dynamic point process models to cardiovascular control. <i>BioSystems</i> , <b>2008</b> , 93, 120-5	1.9	10
40	A Point Process Characterization Of Electrodermal Activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 37-40	0.9	10
39	A PK-PD model of ketamine-induced high-frequency oscillations. <i>Journal of Neural Engineering</i> , <b>2015</b> , 12, 056006	5	9
38	A Systematic Method for Preprocessing and Analyzing Electrodermal Activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6902-6905	0.9	9
37	Instantaneous monitoring of heart beat dynamics during anesthesia and sedation. <i>Journal of Computational Surgery</i> , <b>2014</b> , 1,		8
36	State-space analysis on time-varying correlations in parallel spike sequences 2009,		8
36 35	State-space analysis on time-varying correlations in parallel spike sequences <b>2009</b> ,  Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,	8.9	8
		8.9	
35	Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,  Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated		8
35	Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,  Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. <i>Neurocritical Care</i> , <b>2021</b> , 35, 37-54  Age-Dependent Changes in the Propofol-Induced Electroencephalogram in Children With Autism	3.3	<ul><li>8</li><li>7</li><li>5</li></ul>
35 34 33	Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,  Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. <i>Neurocritical Care</i> , <b>2021</b> , 35, 37-54  Age-Dependent Changes in the Propofol-Induced Electroencephalogram in Children With Autism Spectrum Disorder. <i>Frontiers in Systems Neuroscience</i> , <b>2018</b> , 12, 23  Professional actors demonstrate variability, not stereotypical expressions, when portraying	3.3	<ul><li>8</li><li>7</li><li>5</li></ul>
35 34 33 32	Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,  Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. <i>Neurocritical Care</i> , <b>2021</b> , 35, 37-54  Age-Dependent Changes in the Propofol-Induced Electroencephalogram in Children With Autism Spectrum Disorder. <i>Frontiers in Systems Neuroscience</i> , <b>2018</b> , 12, 23  Professional actors demonstrate variability, not stereotypical expressions, when portraying emotional states in photographs. <i>Nature Communications</i> , <b>2021</b> , 12, 5037  Influence of midazolam premedication on intraoperative EEG signatures in elderly patients. <i>Clinical</i>	3.3 3.5	<ul><li>8</li><li>7</li><li>5</li><li>5</li></ul>
35 34 33 32 31	Framework for advancing rigorous research. <i>ELife</i> , <b>2020</b> , 9,  Mechanisms Underlying Disorders of Consciousness: Bridging Gaps to Move Toward an Integrated Translational Science. <i>Neurocritical Care</i> , <b>2021</b> , 35, 37-54  Age-Dependent Changes in the Propofol-Induced Electroencephalogram in Children With Autism Spectrum Disorder. <i>Frontiers in Systems Neuroscience</i> , <b>2018</b> , 12, 23  Professional actors demonstrate variability, not stereotypical expressions, when portraying emotional states in photographs. <i>Nature Communications</i> , <b>2021</b> , 12, 5037  Influence of midazolam premedication on intraoperative EEG signatures in elderly patients. <i>Clinical Neurophysiology</i> , <b>2019</b> , 130, 1673-1681  Adaptation to elastic loads and BMI robot controls during rat locomotion examined with	3.3 3.5 17.4 4.3	<ul><li>8</li><li>7</li><li>5</li><li>5</li></ul>

27	Sensory gamma frequency stimulation in cognitively healthy and AD individuals safely induces highly coordinated 40 hz neural oscillation: A preliminary study of non-invasive sensory stimulation for treating Alzheimer disease. <i>Alzheimermand Dementia</i> , <b>2020</b> , 16, e041146	1.2	3
26	Point process temporal structure characterizes electrodermal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 26422-26428	11.5	3
25	State-Space Global Coherence to Estimate the Spatio-Temporal Dynamics of the Coordinated Brain Activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 5794-5798	0.9	2
24	A Multitaper Frequency-Domain Bootstrap Method. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 1805-1809	3.2	2
23	A Smoother State Space Multitaper Spectrogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 33-36	0.9	2
22	A hidden Markov model reliably characterizes ketamine-induced spectral dynamics in macaque local field potentials and human electroencephalograms. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e10092	ন্থ্য	2
21	A Model-Based Framework for Assessing the Physiologic Structure of Electrodermal Activity. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2833-2845	5	2
20	Left-Lateralized Contributions of Saccades to Cortical Activity During a One-Back Word Recognition Task. <i>Frontiers in Neural Circuits</i> , <b>2018</b> , 12, 38	3.5	1
19	Biophysical Modeling of Alpha Rhythms During Halothane-Induced Unconsciousness. <i>International IEEE/EMBS Conference on Neural Engineering: [proceedings]</i> , <b>2013</b> , 1104-1107	1.3	1
18	The relative importance in the auditory nerve spiking of a neuron's internal dynamics versus an external input stimulus <b>2011</b> ,		1
17	The effect of different spectro-temporal representations of an input auditory stimulus on the fitting of a point process model of auditory neurons <b>2012</b> ,		1
16	A unified point process framework for assessing heartbeat dynamics and cardiovascular control <b>2009</b> ,		1
15	Adaptive State-Space Multitaper Spectral Estimation. <i>IEEE Signal Processing Letters</i> , <b>2022</b> , 29, 523-527	3.2	1
14	Constructing a control-ready model of EEG signal during general anesthesia in humans. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15870-15876	0.7	1
13	Perioperative Multimodal General Anesthesia Focusing on Specific CNS Targets in Patients Undergoing Cardiac Surgeries: The Pathfinder Feasibility Trial. <i>Frontiers in Medicine</i> , <b>2021</b> , 8, 719512	4.9	1
12	Implantable brain-computer interface for neuroprosthetic-enabled volitional hand grasp restoration in spinal cord injury. <i>Brain Communications</i> , <b>2021</b> , 3, fcab248	4.5	1
11	Electroencephalographic markers of brain development during sevoflurane anesthesia in children aged 0 to 3 years old		1
10	Machine learning of EEG spectra classifies unconsciousness during GABAergic anesthesia. <i>PLoS ONE</i> , <b>2021</b> , 16, e0246165	3.7	1

#### LIST OF PUBLICATIONS

9	Robust point-process Granger causality analysis in presence of exogenous temporal modulations and trial-by-trial variability in spike trains. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1007675	5	1	
8	Quantitative assessment of the relationship between behavioral and autonomic dynamics during propofol-induced unconsciousness. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254053	3.7	1	
7	Continuous action deep reinforcement learning for propofol dosing during general anesthesia <i>Artificial Intelligence in Medicine</i> , <b>2022</b> , 123, 102227	7.4	O	
6	Elementary integrate-and-fire process underlies pulse amplitudes in Electrodermal activity. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009099	5	O	
5	Perioperative Electroencephalogram Spectral Dynamics Related to Postoperative Delirium in Older Patients. <i>Anesthesia and Analgesia</i> , <b>2021</b> , 133, 1598-1607	3.9	O	
4	Propofol Anesthesia Alters Cortical Traveling Waves Journal of Cognitive Neuroscience, 2022, 1-13	3.1	O	
3	Special Issue on Btatistical Analysis of Neuronal Data (Statistics in Medicine, 2007, 26, 3827-3829)	2.3		
2	In Response. <i>Anesthesia and Analgesia</i> , <b>2019</b> , 128, e131	3.9		
1	Neurologic Examination for Anesthesiologists: Reply. <i>Anesthesiology</i> , <b>2019</b> , 131, 946	4.3		