

# Brian L Edlow

## List of Publications by Year in descending order

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112  
papers

5,083  
citations

94269

37  
h-index

110170

64  
g-index

128  
all docs

128  
docs citations

128  
times ranked

5439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroanatomic Connectivity of the Human Ascending Arousal System Critical to Consciousness and Its Disorders. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012, 71, 531-546.	0.9	353
2	The Human Connectome Project and beyond: Initial applications of 300mT/m gradients. <i>NeuroImage</i> , 2013, 80, 234-245.	2.1	309
3	Recovery from disorders of consciousness: mechanisms, prognosis and emerging therapies. <i>Nature Reviews Neurology</i> , 2021, 17, 135-156.	4.9	274
4	Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. <i>Neurocritical Care</i> , 2010, 12, 173-180.	1.2	255
5	Early detection of consciousness in patients with acute severe traumatic brain injury. <i>Brain</i> , 2017, 140, 2399-2414.	3.7	244
6	A human brain network derived from coma-causing brainstem lesions. <i>Neurology</i> , 2016, 87, 2427-2434.	1.5	187
7	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. <i>Scientific Data</i> , 2019, 6, 244.	2.4	179
8	Transcranial optical monitoring of cerebrovascular hemodynamics in acute stroke patients. <i>Optics Express</i> , 2009, 17, 3884.	1.7	149
9	The Brainstem in Emotion: A Review. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 15.	0.9	141
10	Disconnection of the Ascending Arousal System in Traumatic Coma. <i>Journal of Neuropathology and Experimental Neurology</i> , 2013, 72, 505-523.	0.9	118
11	Diagnosis of DWI-negative acute ischemic stroke. <i>Neurology</i> , 2017, 89, 256-262.	1.5	118
12	The Second NINDS/NIBIB Consensus Meeting to Define Neuropathological Criteria for the Diagnosis of Chronic Traumatic Encephalopathy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2021, 80, 210-219.	0.9	111
13	Functional networks reemerge during recovery of consciousness after acute severe traumatic brain injury. <i>Cortex</i> , 2018, 106, 299-308.	1.1	101
14	The Structural Connectome of the Human Central Homeostatic Network. <i>Brain Connectivity</i> , 2016, 6, 187-200.	0.8	82
15	Toward an <i>In Vivo</i> Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. <i>Brain Connectivity</i> , 2015, 5, 597-607.	0.8	68
16	Medical Management of the Severe Traumatic Brain Injury Patient. <i>Neurocritical Care</i> , 2017, 27, 430-446.	1.2	68
17	Dementia After Moderate-Severe Traumatic Brain Injury: Coexistence of Multiple Proteinopathies. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 50-63.	0.9	68
18	Functional Networks in Disorders of Consciousness. <i>Seminars in Neurology</i> , 2017, 37, 485-502.	0.5	65

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19	The effects of healthy aging on cerebral hemodynamic responses to posture change. <i>Physiological Measurement</i> , 2010, 31, 477-495.	1.2	60
20	Susceptibility-weighted imaging reveals cerebral microvascular injury in severe COVID-19. <i>Journal of the Neurological Sciences</i> , 2021, 421, 117308.	0.3	60
21	Therapies to Restore Consciousness in Patients with Severe Brain Injuries: A Gap Analysis and Future Directions. <i>Neurocritical Care</i> , 2021, 35, 68-85.	1.2	60
22	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	1.2	56
23	Multicenter prospective study on predictors of short-term outcome in disorders of consciousness. <i>Neurology</i> , 2020, 95, e1488-e1499.	1.5	56
24	Reversible Cerebral Vasoconstriction Syndrome Associated with Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2007, 7, 203-210.	1.2	55
25	Diffusion tensor imaging in acute-to-subacute traumatic brain injury: a longitudinal analysis. <i>BMC Neurology</i> , 2016, 16, 2.	0.8	55
26	Revisiting Grade 3 Diffuse Axonal Injury: Not All Brainstem Microbleeds are Prognostically Equal. <i>Neurocritical Care</i> , 2017, 27, 199-207.	1.2	53
27	Joint super-resolution and synthesis of 1Âmm isotropic MP-RAGE volumes from clinical MRI exams with scans of different orientation, resolution and contrast. <i>NeuroImage</i> , 2021, 237, 118206.	2.1	52
28	Diagnosing Level of Consciousness: The Limits of the Glasgow Coma Scale Total Score. <i>Journal of Neurotrauma</i> , 2021, 38, 3295-3305.	1.7	51
29	Disruption of the ascending arousal network in acute traumatic disorders of consciousness. <i>Neurology</i> , 2019, 93, e1281-e1287.	1.5	49
30	Primum non nocere: a call for balance when reporting on CTE. <i>Lancet Neurology</i> , The, 2019, 18, 231-233.	4.9	48
31	Intact Brain Network Function in an Unresponsive Patient with COVID-19. <i>Annals of Neurology</i> , 2020, 88, 851-854.	2.8	47
32	Assessment of Covert Consciousness in the Intensive Care Unit: Clinical and Ethical Considerations. <i>Journal of Head Trauma Rehabilitation</i> , 2018, 33, 424-434.	1.0	46
33	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7 T MRI. <i>NeuroImage</i> , 2018, 170, 222-230.	2.1	45
34	The neuroethics of disorders of consciousness: a brief history of evolving ideas. <i>Brain</i> , 2021, 144, 3291-3310.	3.7	44
35	Physiological Modulations in Arterial Spin Labeling Perfusion Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 703-709.	5.4	42
36	Posterior Circulation Stroke after C1â€C2 Intraarticular Facet Steroid Injection: Evidence for Diffuse Microvascular Injury. <i>Anesthesiology</i> , 2010, 112, 1532-1535.	1.3	42

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37	Personalized Connectome Mapping to Guide Targeted Therapy and Promote Recovery of Consciousness in the Intensive Care Unit. <i>Neurocritical Care</i> , 2020, 33, 364-375.	1.2	42
38	Outcome in Patients with H1N1 Influenza and Cerebrovascular Injury Treated with Extracorporeal Membrane Oxygenation. <i>Neurocritical Care</i> , 2011, 15, 156-160.	1.2	41
39	Hippocampal Magnetic Resonance Imaging Abnormalities in Cardiac Arrest are Associated with Poor Outcome. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2013, 22, 899-905.	0.7	41
40	A Precision Medicine Framework for Classifying Patients with Disorders of Consciousness: Advanced Classification of Consciousness Endotypes (ACCESS). <i>Neurocritical Care</i> , 2021, 35, 27-36.	1.2	39
41	Unexpected Recovery of Function After Severe Traumatic Brain Injury: The Limits of Early Neuroimaging-Based Outcome Prediction. <i>Neurocritical Care</i> , 2013, 19, 364-375.	1.2	37
42	Update on neuroimaging in disorders of consciousness. <i>Current Opinion in Neurology</i> , 2021, 34, 488-496.	1.8	36
43	Mapping the subcortical connectivity of the human default mode network. <i>NeuroImage</i> , 2021, 245, 118758.	2.1	34
44	Functional MRI and Outcome in Traumatic Coma. <i>Current Neurology and Neuroscience Reports</i> , 2013, 13, 375.	2.0	33
45	Feasibility of an EEG-based brain-computer interface in the intensive care unit. <i>Clinical Neurophysiology</i> , 2018, 129, 1519-1525.	0.7	33
46	Functional MRI Motor Imagery Tasks to Detect Command Following in Traumatic Disorders of Consciousness. <i>Frontiers in Neurology</i> , 2017, 8, 688.	1.1	32
47	Multimodal Characterization of the Late Effects of Traumatic Brain Injury: A Methodological Overview of the Late Effects of Traumatic Brain Injury Project. <i>Journal of Neurotrauma</i> , 2018, 35, 1604-1619.	1.7	32
48	The Quest for Covert Consciousness. <i>Neurology</i> , 2021, 96, 893-896.	1.5	32
49	Advanced Neuroimaging in Traumatic Brain Injury. <i>Seminars in Neurology</i> , 2013, 32, 374-400.	0.5	27
50	Ascending arousal network connectivity during recovery from traumatic coma. <i>NeuroImage: Clinical</i> , 2020, 28, 102503.	1.4	24
51	Stimulant Therapy in Acute Traumatic Brain Injury: Prescribing Patterns and Adverse Event Rates at 2 Level 1 Trauma Centers. <i>Journal of Intensive Care Medicine</i> , 2020, 35, 1196-1202.	1.3	22
52	MRI in disorders of consciousness. <i>Current Opinion in Neurology</i> , 2020, 33, 676-683.	1.8	22
53	Disorders of Consciousness Associated With COVID-19. <i>Neurology</i> , 2022, 98, .	1.5	22
54	Risk factors for 2â€­year mortality in patients with prolonged disorders of consciousness: An international multicentre study. <i>European Journal of Neurology</i> , 2022, 29, 390-399.	1.7	21

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55	The Ansa Subthalamica: A Neglected Fiber Tract. <i>Movement Disorders</i> , 2020, 35, 75-80.	2.2	20
56	Multimodal assessment of recovery from coma in a rat model of diffuse brainstem tegmentum injury. <i>NeuroImage</i> , 2019, 189, 615-630.	2.1	19
57	Case 40-2020: A 24-Year-Old Man with Headache and Covid-19. <i>New England Journal of Medicine</i> , 2020, 383, 2572-2580.	13.9	19
58	Neuroprognostication: a conceptual framework. <i>Nature Reviews Neurology</i> , 2022, 18, 419-427.	4.9	19
59	Steroid Responsive A3243G Mutation MELAS. <i>Neurologist</i> , 2012, 18, 159-170.	0.4	18
60	Optimizing the accuracy of cortical volumetric analysis in traumatic brain injury. <i>MethodsX</i> , 2020, 7, 100994.	0.7	18
61	EEG Correlates of Language Function in Traumatic Disorders of Consciousness. <i>Neurocritical Care</i> , 2020, 33, 449-457.	1.2	17
62	Covert Consciousness: Searching for Volitional Brain Activity in the Unresponsive. <i>Current Biology</i> , 2018, 28, R1345-R1348.	1.8	16
63	Default mode network dynamics in covert consciousness. <i>Cortex</i> , 2019, 119, 571-574.	1.1	16
64	Delayed reemergence of consciousness in survivors of severe COVID-19. <i>Neurocritical Care</i> , 2020, 33, 627-629.	1.2	16
65	Clinical, Imaging, and Lab Correlates of Severe COVID-19 Leukoencephalopathy. <i>American Journal of Neuroradiology</i> , 2021, 42, 632-638.	1.2	16
66	Location of Subcortical Microbleeds and Recovery of Consciousness After Severe Traumatic Brain Injury. <i>Neurology</i> , 2021, 97, e113-e123.	1.5	16
67	Early-Onset Dementia in War Veterans: Brain Polypathology and Clinicopathologic Complexity. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 144-162.	0.9	15
68	Brain MR Spectroscopic Findings in 3 Consecutive Patients with COVID-19: Preliminary Observations. <i>American Journal of Neuroradiology</i> , 2021, 42, 37-41.	1.2	15
69	Prolonged Unconsciousness is Common in COVID-19 and Associated with Hypoxemia. <i>Annals of Neurology</i> , 2022, 91, 740-755.	2.8	15
70	The Pattern and Pace of Hyperacute Hemorrhage Expansion. <i>Neurocritical Care</i> , 2012, 17, 250-254.	1.2	14
71	Longitudinal Diffusion Tensor Imaging Detects Recovery of Fractional Anisotropy Within Traumatic Axonal Injury Lesions. <i>Neurocritical Care</i> , 2016, 24, 342-352.	1.2	14
72	Chronic Traumatic Encephalopathy. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2017, 28, 301-321.	0.7	14

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73	Electrophysiological correlates of thalamocortical function in acute severe traumatic brain injury. <i>Cortex</i> , 2022, 152, 136-152.	1.1	14
74	Q&space truncation and sampling in diffusion spectrum imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1750-1763.	1.9	13
75	Unmasking Covert Language Processing in the Intensive Care Unit with Electroencephalography. <i>Annals of Neurology</i> , 2021, 89, 643-645.	2.8	13
76	Collaborative Neuropathology Network Characterizing Outcomes of TBI (CONNECT-TBI). <i>Acta Neuropathologica Communications</i> , 2021, 9, 32.	2.4	13
77	Ethical Considerations in Clinical Trials for Disorders of Consciousness. <i>Brain Sciences</i> , 2022, 12, 211.	1.1	13
78	Generalized diffusion spectrum magnetic resonance imaging (GDSI) for model-free reconstruction of the ensemble average propagator. <i>NeuroImage</i> , 2019, 189, 497-515.	2.1	10
79	Tracing Modification to Cortical Circuits in Human and Nonhuman Primates from High-Resolution Tractography, Transcription, and Temporal Dimensions. <i>Journal of Neuroscience</i> , 2022, 42, 3749-3767.	1.7	10
80	Characterizing Signals Within Lesions and Mapping Brain Network Connectivity After Traumatic Axonal Injury: A 7 Tesla Resting-State fMRI Study. <i>Brain Connectivity</i> , 2018, 8, 288-298.	0.8	9
81	Traumatic Microbleeds in the Hippocampus and Corpus Callosum Predict Duration of Posttraumatic Amnesia. <i>Journal of Head Trauma Rehabilitation</i> , 2019, 34, E10-E18.	1.0	9
82	Common Data Elements for COVID-19 Neuroimaging: A GCS-NeuroCOVID Proposal. <i>Neurocritical Care</i> , 2021, 34, 365-370.	1.2	9
83	Tractography-Pathology Correlations in Traumatic Brain Injury: A TRACK-TBI Study. <i>Journal of Neurotrauma</i> , 2021, 38, 1620-1631.	1.7	9
84	Reverse Locked-In Syndrome. <i>Neurocritical Care</i> , 2017, 27, 108-114.	1.2	8
85	Emerging Consciousness at a Clinical Crossroads. <i>AJOB Neuroscience</i> , 2021, 12, 148-150.	0.6	8
86	Diagnosis of Acute Neurologic Emergencies in Pregnant and Postpartum Women. <i>Emergency Medicine Clinics of North America</i> , 2016, 34, 943-965.	0.5	7
87	Emergency Neurological Life Support: Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2017, 27, 116-123.	1.2	7
88	Recovery of Functional Independence After Traumatic Transtentorial Herniation With Duret Hemorrhages. <i>Frontiers in Neurology</i> , 2019, 10, 1077.	1.1	7
89	Dopaminergic modulation of human consciousness via default mode network connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
90	Covert Consciousness in the Intensive Care Unit. <i>Trends in Neurosciences</i> , 2019, 42, 844-847.	4.2	6

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91	Reemergence of the language network during recovery from severe traumatic brain injury: A pilot functional MRI study. <i>Brain Injury</i> , 2021, 35, 1552-1562.	0.6	6
92	Prognostication in Acute Neurological Emergencies. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2022, 31, 106277.	0.7	6
93	Diagnostic, Prognostic, and Advanced Imaging in Severe Traumatic Brain Injury. <i>Current Trauma Reports</i> , 2015, 1, 133-146.	0.6	5
94	Default Mode Network Perfusion in Aneurysmal Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2016, 25, 237-242.	1.2	5
95	Comparison of Common Outcome Measures for Assessing Independence in Patients Diagnosed with Disorders of Consciousness: A Traumatic Brain Injury Model Systems Study. <i>Journal of Neurotrauma</i> , 2022, 39, 1222-1230.	1.7	5
96	Recurring Polysomatic Hemangiomas: A New Syndrome?. <i>Journal of Pediatric Hematology/Oncology</i> , 2006, 28, 471-475.	0.3	4
97	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. <i>BMC Neurology</i> , 2021, 21, 154.	0.8	4
98	Blowing the whistle on sports concussions. <i>Neurology</i> , 2015, 85, 1442-1443.	1.5	3
99	Long-Term Recovery from Disordered Consciousness Associated with COVID-19. <i>Neurocritical Care</i> , 2021, , 1.	1.2	3
100	Teaching NeuroImages: Restricted diffusion in the corpus callosum after traumatic diffuse axonal injury. <i>Neurology</i> , 2010, 75, e69-e69.	1.5	2
101	Reader Response: Critical Illness-Associated Cerebral Microbleeds in COVID-19 Acute Respiratory Distress Syndrome. <i>Neurology</i> , 2021, 97, 254-254.	1.5	2
102	Severe Cerebral Edema in Substance-Related Cardiac Arrest Patients. <i>Resuscitation</i> , 2022, , .	1.3	2
103	Teaching Neuro Images : Traumatic blown pupil without herniation. <i>Neurology</i> , 2017, 88, e190-e191.	1.5	1
104	A state-space model for dynamic functional connectivity. , 2019, 2019, 240-244.		1
105	Authors' Reply:. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014, 73, 268.2-269.	0.9	0
106	Bringing posttraumatic sleep-wake disorders out of the dark. <i>Neurology</i> , 2016, 86, 1934-1935.	1.5	0
107	Tracing the evolution of cortical circuits in humans from ultra-high resolution connectomic, transcriptomic, and temporal dimensions. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
108	Mapping a memory disorder using functional network analysis. <i>Acta Neurologica Scandinavica</i> , 2021, 144, 463-464.	1.0	0

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109	Early Rehabilitation for Patients with Disorders of Consciousness after Severe COVID-19. <i>Neurocritical Care</i> , 2022, 36, 341-343.	1.2	0
110	Stability of extemporaneously prepared preservative-free methylphenidate 5 mg/mL intravenous solution. <i>American Journal of Health-System Pharmacy</i> , 2022, 79, 359-363.	0.5	0
111	Return to Work Within Four Months of Grade 3 Diffuse Axonal Injury. <i>Neurohospitalist, The</i> , 2022, 12, 194187442110514.	0.3	0
112	Response: Letter to the Editor - Bodien et al. <i>Journal of Neurotrauma</i> , 0, , .	1.7	0