

# M Sean Grady

## List of Publications by Year in descending order

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100  
papers

7,876  
citations

41344

49  
h-index

49909

87  
g-index

100  
all docs

100  
docs citations

100  
times ranked

6993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lateral Fluid Percussion Brain Injury: A 15-Year Review and Evaluation. <i>Journal of Neurotrauma</i> , 2005, 22, 42-75.	3.4	487
2	Reduced mortality rate in patients with severe traumatic brain injury treated with brain tissue oxygen monitoring. <i>Journal of Neurosurgery</i> , 2005, 103, 805-811.	1.6	369
3	Predicting outcome in poor-grade patients with subarachnoid hemorrhage: a retrospective review of 159 aggressively managed cases. <i>Journal of Neurosurgery</i> , 1996, 85, 39-49.	1.6	330
4	Mild head injury increasing the brain's vulnerability to a second concussive impact. <i>Journal of Neurosurgery</i> , 2001, 95, 859-870.	1.6	278
5	Angioplasty for the treatment of symptomatic vasospasm following subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 1989, 71, 654-660.	1.6	248
6	Posterior Cervical Arthrodesis with AO Reconstruction Plates and Bone Graft. <i>Spine</i> , 1991, 16, S72-S79.	2.0	239
7	Transcriptome in vivo analysis (TIVA) of spatially defined single cells in live tissue. <i>Nature Methods</i> , 2014, 11, 190-196.	19.0	235
8	Ultrastructural Studies of Diffuse Axonal Injury in Humans. <i>Journal of Neurotrauma</i> , 1994, 11, 173-186.	3.4	222
9	Impaired K <sup>+</sup> Homeostasis and Altered Electrophysiological Properties of Post-Traumatic Hippocampal Glia. <i>Journal of Neuroscience</i> , 1999, 19, 8152-8162.	3.6	212
10	Comparison of balloon angioplasty and papaverine infusion for the treatment of vasospasm following aneurysmal subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 1998, 88, 277-284.	1.6	205
11	Spontaneous Cerebrospinal Fluid Leaks: A Variant of Benign Intracranial Hypertension. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2006, 115, 495-500.	1.1	190
12	Neuronal and Glial Cell Number in the Hippocampus after Experimental Traumatic Brain Injury: Analysis by Stereological Estimation. <i>Journal of Neurotrauma</i> , 2003, 20, 929-941.	3.4	186
13	The Use of Antibodies Targeted Against the Neurofilament Subunits for the Detection of Diffuse Axonal Injury in Humans. <i>Journal of Neuropathology and Experimental Neurology</i> , 1993, 52, 143-152.	1.7	176
14	Comparison of endoscopic and microscopic removal of pituitary adenomas: single-surgeon experience and the learning curve. <i>Neurosurgical Focus</i> , 2008, 25, E10.	2.3	156
15	Structural and Functional Damage Sustained by Mitochondria after Traumatic Brain Injury in the Rat: Evidence for Differentially Sensitive Populations in the Cortex and Hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 219-231.	4.3	154
16	Impact of the Accreditation Council for Graduate Medical Education work-hour regulations on neurosurgical resident education and productivity. <i>Journal of Neurosurgery</i> , 2009, 110, 820-827.	1.6	152
17	Lack of shunt response in suspected idiopathic normal pressure hydrocephalus with Alzheimer disease pathology. <i>Annals of Neurology</i> , 2010, 68, 535-540.	5.3	148
18	Association Between In Vivo Fluorine 18- <sup>18</sup> F-Flutemetamol Amyloid Positron Emission Tomography Imaging and In Vivo Cerebral Cortical Histopathology. <i>Archives of Neurology</i> , 2011, 68, 1398.	4.5	148

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19	Adaptation of the Fluid Percussion Injury Model to the Mouse. <i>Journal of Neurotrauma</i> , 1998, 15, 217-229.	3.4	141
20	Intracranial pressure changes induced during papaverine infusion for treatment of vasospasm. <i>Journal of Neurosurgery</i> , 1995, 83, 430-434.	1.6	133
21	Comparison of Anterior and Posterior Approaches in Cervical Spinal Cord Injuries. <i>Journal of Spinal Disorders and Techniques</i> , 2003, 16, 229-235.	1.9	131
22	Improved outcome after rupture of anterior circulation aneurysms: a retrospective 10-year review of 224 good-grade patients. <i>Journal of Neurosurgery</i> , 1995, 83, 394-402.	1.6	128
23	Cerebral oxygenation following decompressive hemicraniectomy for the treatment of refractory intracranial hypertension. <i>Journal of Neurosurgery</i> , 2004, 101, 241-247.	1.6	127
24	Regional Patterns of Blood-Brain Barrier Breakdown following Central and Lateral Fluid Percussion Injury in Rodents. <i>Journal of Neurotrauma</i> , 1993, 10, 415-430.	3.4	120
25	Neuroprotective and behavioral efficacy of nerve growth factor-transfected hippocampal progenitor cell transplants after experimental traumatic brain injury. <i>Journal of Neurosurgery</i> , 2001, 94, 765-774.	1.6	112
26	A National Fundamentals Curriculum for Neurosurgery PGY1 Residents. <i>Neurosurgery</i> , 2012, 70, 971-981.	1.1	103
27	The Incidence of Surgical Complications Is Similar in Good and Poor Grade Patients Undergoing Repair of Ruptured Anterior Circulation Aneurysms: A Retrospective Review of 355 Patients. <i>Neurosurgery</i> , 1996, 38, 887-895.	1.1	96
28	Cerebrospinal Fluid Pressure Monitoring after Repair of Cerebrospinal Fluid Leaks. <i>Otolaryngology - Head and Neck Surgery</i> , 2004, 130, 443-448.	1.9	95
29	Loss of forebrain cholinergic neurons following fluid-percussion injury: implications for cognitive impairment in closed head injury. <i>Journal of Neurosurgery</i> , 1995, 83, 496-502.	1.6	94
30	Pre-optimization of spinal surgery patients: Development of a neurosurgical enhanced recovery after surgery (ERAS) protocol. <i>Clinical Neurology and Neurosurgery</i> , 2018, 164, 142-153.	1.4	93
31	Injury-induced alterations in CNS electrophysiology. <i>Progress in Brain Research</i> , 2007, 161, 143-169.	1.4	90
32	Fluid Percussion Injury Causes Loss of Forebrain Choline Acetyltransferase and Nerve Growth Factor Receptor Immunoreactive Cells in the Rat. <i>Journal of Neurotrauma</i> , 1994, 11, 379-392.	3.4	86
33	Neurological Manifestations Among US Government Personnel Reporting Directional Audible and Sensory Phenomena in Havana, Cuba. <i>JAMA - Journal of the American Medical Association</i> , 2018, 319, 1125.	7.4	83
34	Cerebral arteriovenous oxygen difference: a predictor of cerebral infarction and outcome in patients with severe head injury. <i>Journal of Neurosurgery</i> , 1997, 87, 1-8.	1.6	79
35	Cranioplasty. <i>Neurosurgery Clinics of North America</i> , 2017, 28, 257-265.	1.7	78
36	Posterior instrumentation of the unstable cervicothoracic spine. <i>Journal of Neurosurgery</i> , 1996, 84, 552-558.	1.6	75

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37	Decompressive Craniectomy for Elevated Intracranial Pressure and Its Effect on the Cumulative Ischemic Burden and Therapeutic Intensity Levels After Severe Traumatic Brain Injury. <i>Neurosurgery</i> , 2010, 66, 1111-1119.	1.1	73
38	Is aggressive treatment of traumatic brain injury cost-effective?. <i>Journal of Neurosurgery</i> , 2012, 116, 1106-1113.	1.6	68
39	Intracerebral drug delivery in rats with lesion-induced memory deficits. <i>Journal of Neurosurgery</i> , 1989, 71, 105-112.	1.6	65
40	Response of the Contralateral Hippocampus to Lateral Fluid Percussion Brain Injury. <i>Journal of Neurotrauma</i> , 2006, 23, 1330-1342.	3.4	65
41	Emergent Aneurysm Clipping without Angiography in the Moribund Patient with Intracerebral Hemorrhage. <i>Neurosurgery</i> , 1993, 33, 189-197.	1.1	64
42	Acute Cytoskeletal Alterations and Cell Death Induced by Experimental Brain Injury Are Attenuated by Magnesium Treatment and Exacerbated by Magnesium Deficiency. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001, 60, 183-194.	1.7	61
43	Primary Cell Culture of Live Neurosurgically Resected Aged Adult Human Brain Cells and Single Cell Transcriptomics. <i>Cell Reports</i> , 2017, 18, 791-803.	6.4	60
44	Transoral robotic surgery of craniocervical junction and atlantoaxial spine: a cadaveric study. <i>Journal of Neurosurgery: Spine</i> , 2010, 12, 13-18.	1.7	57
45	Da Vinci Robot-Assisted Transoral Odontoidectomy for Basilar Invagination. <i>Orl</i> , 2010, 72, 91-95.	1.1	57
46	Clinically silent somatotroph adenomas are common. <i>European Journal of Endocrinology</i> , 2011, 165, 39-44.	3.7	55
47	Bilateral growth-related protein expression suggests a transient increase in regenerative potential following brain trauma. <i>Journal of Comparative Neurology</i> , 2000, 424, 521-531.	1.6	54
48	Structural and Functional Damage Sustained by Mitochondria After Traumatic Brain Injury in the Rat: Evidence for Differentially Sensitive Populations in the Cortex and Hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, , 219-231.	4.3	54
49	Resident duty hour regulation and patient safety: establishing a balance between concerns about resident fatigue and adequate training in neurosurgery. <i>Journal of Neurosurgery</i> , 2009, 110, 828-836.	1.6	50
50	Acute cognitive impairment after lateral fluid percussion brain injury recovers by 1 month: Evaluation by conditioned fear response. <i>Behavioural Brain Research</i> , 2007, 177, 347-357.	2.2	49
51	Pervasive within-Mitochondrion Single-Nucleotide Variant Heteroplasmy as Revealed by Single-Mitochondrion Sequencing. <i>Cell Reports</i> , 2017, 21, 2706-2713.	6.4	48
52	Phosphorylated tau/amyloid beta 1-42 ratio in ventricular cerebrospinal fluid reflects outcome in idiopathic normal pressure hydrocephalus. <i>Fluids and Barriers of the CNS</i> , 2012, 9, 7.	5.0	46
53	Folate receptor overexpression can be visualized in real time during pituitary adenoma endoscopic transsphenoidal surgery with near-infrared imaging. <i>Journal of Neurosurgery</i> , 2018, 129, 390-403.	1.6	46
54	Endovascular Microcoil Gene Delivery Using Immobilized Anti-adenovirus Antibody for Vector Tethering. <i>Stroke</i> , 2002, 33, 1376-1382.	2.0	44

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55	The effect of nimodipine on cerebral oxygenation in patients with poor-grade subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2004, 101, 594-599.	1.6	44
56	A Review and Rationale for the Use of Genetically Engineered Animals in the Study of Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 1241-1258.	4.3	42
57	Cognitive outcome following brain injury and treatment with an inhibitor of Nogo-A in association with an attenuated downregulation of hippocampal growth-associated protein-43 expression. <i>Journal of Neurosurgery</i> , 2007, 107, 844-853.	1.6	41
58	Concussion Induces Hippocampal Circuitry Disruption in Swine. <i>Journal of Neurotrauma</i> , 2017, 34, 2303-2314.	3.4	41
59	Loss of Acid Sensing Ion Channel-1a and Bicarbonate Administration Attenuate the Severity of Traumatic Brain Injury. <i>PLoS ONE</i> , 2013, 8, e72379.	2.5	37
60	Transcriptome signatures associated with meningioma progression. <i>Acta Neuropathologica Communications</i> , 2019, 7, 67.	5.2	36
61	Enhanced recovery after elective spinal and peripheral nerve surgery: pilot study from a single institution. <i>Journal of Neurosurgery: Spine</i> , 2019, 30, 532-540.	1.7	35
62	Resident simulation training in endoscopic endonasal surgery utilizing haptic feedback technology. <i>Journal of Clinical Neuroscience</i> , 2016, 34, 112-116.	1.5	34
63	Predicting length of hospital stay and cost by aneurysm grade on admission. <i>Journal of Neurosurgery</i> , 1996, 85, 388-391.	1.6	30
64	BRAIN HYPERTHERMIA AFTER TRAUMATIC BRAIN INJURY DOES NOT REDUCE BRAIN OXYGEN. <i>Neurosurgery</i> , 2008, 62, 864-872.	1.1	29
65	Gunshot Wounds of the Internal Carotid Artery at the Skull Base. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 42, 123-132.	2.4	29
66	Intraoperative near-infrared imaging with receptor-specific versus passive delivery of fluorescent agents in pituitary adenomas. <i>Journal of Neurosurgery</i> , 2019, 131, 1974-1984.	1.6	29
67	P-Selectin Blockade Following Fluid-Percussion Injury: Behavioral and Immunochemical Sequelae. <i>Journal of Neurotrauma</i> , 1999, 16, 13-25.	3.4	28
68	Brain Tissue Oxygen Practice Guidelines Using the LICOX <sup>®</sup> CMP Monitoring System. <i>Journal of Neuroscience Nursing</i> , 2005, 37, 278-288.	1.1	27
69	Neuroimaging Findings in US Government Personnel With Possible Exposure to Directional Phenomena in Havana, Cuba. <i>JAMA - Journal of the American Medical Association</i> , 2019, 322, 336.	7.4	27
70	Inbred Mouse Strains as a Tool To Analyze Hippocampal Neuronal Loss after Brain Injury: A Stereological Study. <i>Journal of Neurotrauma</i> , 2006, 23, 1320-1329.	3.4	25
71	Biodegradable Polyglycolide Endovascular Coils Promote Wall Thickening and Drug Delivery in a Rat Aneurysm Model. <i>Neurosurgery</i> , 2001, 49, 1187-1195.	1.1	23
72	Impaired Fibrinolysis and Traumatic Brain Injury in Mice. <i>Journal of Neurotrauma</i> , 2006, 23, 976-984.	3.4	23

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73	Trends in the Surgical Treatment of Pseudotumor Cerebri Syndrome in the United States. JAMA Network Open, 2020, 3, e2029669.	5.9	23
74	A guide to placement of parietooccipital ventricular catheters. Journal of Neurosurgery, 1995, 82, 300-304.	1.6	22
75	Evidence Disputing the Importance of Excitotoxicity in Hippocampal Neuron Death after Experimental Traumatic Brain Injury. Annals of the New York Academy of Sciences, 1999, 890, 287-298.	3.8	21
76	Folate Receptor Near-Infrared Optical Imaging Provides Sensitive and Specific Intraoperative Visualization of Nonfunctional Pituitary Adenomas. Operative Neurosurgery, 2019, 16, 59-70.	0.8	20
77	Trends in Resident Operative Teaching Opportunities for Treatment of Intracranial Aneurysms. World Neurosurgery, 2017, 103, 194-200.	1.3	19
78	Assessing the utility of an IoS application in the perioperative care of spine surgery patients: the NeuroPath Pilot study. MHealth, 2019, 5, 40-40.	1.6	18
79	Operative Strategies to Minimize Complications Following Resection of Pituitary Macroadenomas. Journal of Neurological Surgery, Part B: Skull Base, 2017, 78, 184-190.	0.8	17
80	Association of Overlapping Neurosurgery With Patient Outcomes at a Large Academic Medical Center. Neurosurgery, 2019, 85, E1050-E1058.	1.1	17
81	Prevalence of clinically silent corticotroph macroadenomas. Clinical Endocrinology, 2016, 85, 874-880.	2.4	16
82	Posterior ventricular catheter burr-hole localizer. Journal of Neurosurgery, 1998, 89, 157-160.	1.6	15
83	Balloon angioplasty of the A1 segment of the anterior cerebral artery narrowed by vasospasm. Journal of Neurosurgery, 1999, 91, 153-156.	1.6	15
84	<sc>Drivers</sc> of <sc>In-Hospital</sc> Costs Following Endoscopic Transphenoidal Pituitary Surgery. Laryngoscope, 2021, 131, 760-764.	2.0	15
85	Initial Assessment of the Risk Assessment and Prediction Tool in a Heterogeneous Neurosurgical Patient Population. Neurosurgery, 2019, 85, 50-57.	1.1	14
86	A Preliminary Report on the Use of Antibiotic-Impregnated Methyl Methacrylate in Salvage Cranioplasty. Journal of Craniofacial Surgery, 2014, 25, 393-396.	0.7	13
87	Cervical Carotid to Petrous Carotid Bypass for Lesions of the Upper Cervical Carotid Artery. Annals of Vascular Surgery, 1996, 10, 76-87.	0.9	8
88	Posterior stabilization of the lower cervical spine with lateral mass plates and screws. Operative Techniques in Orthopaedics, 1996, 6, 58-62.	0.1	6
89	Neurosurgery residency and fellowship education in the United States: 2 decades of system development by the One Neurosurgery Summit organizations. Journal of Neurosurgery, 2022, 136, 565-574.	1.6	4
90	Letter to the Editor â€œIncorporating Telehealth to Improve Neurosurgical Training During the COVID-19 Pandemicâ€. World Neurosurgery, 2020, 139, 728-731.	1.3	4

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91	Single-Photon Emission Computed Tomography, Transcranial Doppler Ultrasound, and Cerebral Angioplasty for Posttraumatic Vasospasm. <i>Journal of Neuroimaging</i> , 1993, 3, 252-254.	2.0	3
92	Comparison of balloon angioplasty and papaverine infusion for the treatment of vasospasm following aneurysmal subarachnoid hemorrhage. <i>Neurosurgical Focus</i> , 1997, 3, E10.	2.3	3
93	Factors Associated with and Temporal Trends in the Use of Radiation Therapy for the Treatment of Pituitary Adenoma in the National Cancer Database. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2021, 82, 285-294.	0.8	3
94	Pseudotumor cerebri comorbid with meningioma: A review and case series. , 2018, 9, 130.		2
95	The management of infections involving the cervicothoracic junction. <i>Seminars in Spine Surgery</i> , 2004, 16, 206-213.	0.2	1
96	Colloid cyst of the third ventricle. <i>Practical Neurology</i> , 2014, 14, 363-364.	1.1	1
97	Commentary: Developing a Professionalism and Harassment Policy for Organized Neurosurgery. <i>Neurosurgery</i> , 2021, 89, E63-E64.	1.1	1
98	Review of Magnetic Neurosurgery Research. <i>Computer Aided Surgery</i> , 1995, 1, 295-299.	1.8	0
99	Should corticosteroids be used to treat traumatic brain injury?. <i>Nature Clinical Practice Neurology</i> , 2005, 1, 74-75.	2.5	0
100	Thomas W. Langfitt, M.D., 1927-2005. <i>Journal of Neurosurgery</i> , 2006, 104, 165-166.	1.6	0